

RF & EMC Product Catalog 2024



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email: applications@arworld.us

Digital Catalog is available at <https://arworld.us/catalog-request/>
AR RF/Microwave Instrumentation is ISO Certified.



Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	Contact
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Total Solutions

From complete testing systems to software, AR is your one-stop for RF and EMC testing. Our testing solutions are built to last and come with the product quality and high-level support customers can expect from AR.


Throughout this catalog, you will find everything you need for RF and EMC testing. Use the table below to quickly find some of our more popular items.

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Amplifiers

 Select a Model Number to view more details


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Frequency	Power (W)	Model Number	Category	Page
4 kHz – 400 MHz	100	100A400AM20	RF Solid State	11
10 kHz – 100 MHz	150	150A100D	RF Solid State	11
10 kHz – 225 MHz	1200	1200A225B	RF Solid State	12
10 kHz – 225 MHz	2500	2500A225C	RF Solid State	12
10 kHz – 225 MHz	5000	5000A225C	RF Solid State	13
10 kHz – 225 MHz	10000	10000A225B	RF Solid State	13
10 kHz – 250 MHz	25	25A250B	RF Solid State	14
10 kHz – 250 MHz	50	50A250	RF Solid State	14
10 kHz – 250 MHz	125	125A250	RF Solid State	15
10 kHz – 250 MHz	500	500A250D	RF Solid State	15
10 kHz – 400 MHz	100	100A400A	RF Solid State	16
10 kHz – 400 MHz	175	175A400	RF Solid State	16
10 kHz – 400 MHz	250	250A400	RF Solid State	17
10 kHz – 400 MHz	350	350A400	RF Solid State	17
10 kHz – 400 MHz	600	600A400	RF Solid State	18
10 kHz – 400 MHz	1000	1000A400	RF Solid State	18
10 kHz – 1000 MHz	10	10U1000	Universal	27

Frequency	Power (W)	Model Number	Category	Page
10 kHz – 1000 MHz	25	25U1000	Universal	28
10 kHz – 1000 MHz	50	50U1000	Universal	28
10 kHz – 1000 MHz	100	100U1000A	Universal	29
10 kHz – 1000 MHz	250	250U1000A	Universal	29
50 – 1000 MHz	50	50W1000D	RF Solid State	19
80 – 1000 MHz	125	125W1000A	RF Solid State	19
80 – 1000 MHz	150	150W1000B	RF Solid State	20
80 – 1000 MHz	250	250W1000C	RF Solid State	20
80 – 1000 MHz	500	500W1000C	RF Solid State	21
80 – 1000 MHz	800	800W1000	RF Solid State	21
80 – 1000 MHz	1000	1000W1000H	RF Solid State	22
80 – 1000 MHz	2000	2000W1000E	RF Solid State	22
80 – 1000 MHz	3000	3000W1000B	RF Solid State	23
80 – 1000 MHz	4000	4000W1000B	RF Solid State	23
80 – 1000 MHz	6000	6000W1000	RF Solid State	24
80 – 1000 MHz	10000	10000W1000A	RF Solid State	24
1 – 6 GHz	30	30S1G6C	Microwave	33
1 – 6 GHz	75	75S1G6C	Microwave	34



Amplifiers

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Frequency	Power (W)	Model Number	Category	Page
1 - 6 GHz	125	125S1G6C	Microwave	35
1 - 6 GHz	250	250S1G6C	Microwave	36
1 - 6 GHz	500	500S1G6C	Microwave	37
1 - 6 GHz	750	750S1G6C	Microwave	38
1 - 6 GHz	1000	1000S1G6C	Microwave	38
0.8 - 6 GHz	30	AR-G030	Microwave	38
0.8 - 6 GHz	60	AR-G060	Microwave	39
0.8 - 6 GHz	120	AR-G120	Microwave	39
0.8 - 6 GHz	200	AR-G200	Microwave	40
0.8 - 6 GHz	400	AR-G400	Microwave	40
0.8 - 2.5 GHz	1000	1000SP0z8G2z5	Pulse	45
0.8 - 2.5 GHz	2000	2000SP0z8G2z5	Pulse	45
0.8 - 2.5 GHz	4000	4000SP0z8G2z5	Pulse	46
0.8 - 2.5 GHz	8000	8000SP0z8G2z5	Pulse	46
1 - 2 GHz	1300	1300SP1G2	Pulse	47
1 - 2 GHz	2000	2000SP1G2	Pulse	47
1 - 2 GHz	8000	8000SP1G2	Pulse	48
1 - 2.8 GHz	2000	2000S1G2z8	Microwave	39
1 - 2.5 GHz	125	125S1G2z5	Microwave	39
1 - 2.5 GHz	250	250S1G2z5B	Microwave	40
1 - 2.5 GHz	500	500S1G2z5A	Microwave	40
1 - 2.5 GHz	1000	1000S1G2z5B	Microwave	41

Frequency	Power (W)	Model Number	Category	Page
1.2 - 1.4 GHz	4000	4000SP1z2G1z4	Pulse	49
1.2 - 1.4 GHz	6000	6000SP1z2G1z4	Pulse	49
2 - 4 GHz	1000	1000SP2G4	Pulse	51
2 - 4 GHz	2000	2000SP2G4	Pulse	52
2 - 4 GHz	4000	4000TP2G4	TWT	66
2 - 4 GHz	5000	5000SP2G4	Pulse	52
2 - 4 GHz	7000	7000SP2G4	Pulse	53
2 - 4 GHz	6900	6900TP2G4	TWT	67
2 - 4 GHz	10000	10000SP2G4	Pulse	53
2.5 - 7.5 GHz	300	300T2G8	TWT	57
2.5 - 7.5 GHz	500	500T2G8	TWT	57
2.5 - 7.5 GHz	1000	1000T2G8B	TWT	60



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Frequency	Power (W)	Model Number	Category	Page
2.5 - 7.5 GHz	1700	1500T2G8A	TWT	58
2.5 - 7.5 GHz	2000	2000TP2G8B	TWT	67
2.7 - 3.1 GHz	4000	4000SP2z7G3z1	Pulse	54
2.7 - 3.1 GHz	8000	8000SP2z7G3z1	Pulse	54
2.7 - 3.1 GHz	8000	8000TP2z7G3z1	TWT	68
2.7 - 3.1 GHz	12000	12000SP2z7G3z1	Pulse	55
4 - 8 GHz	200	200T4G8	TWT	59
4 - 8 GHz	4000	4000TP4G8	TWT	68
4 - 8 GHz	7400	7400TP4G8	TWT	69
1.2 - 1.4 GHz 2.7 - 3.1 GHz	1500/1000	1500/1000SP1z2G3z1	Pulse	55
6 - 18 GHz	20	20S6G18C	Microwave	41
6 - 18 GHz	40	40S6G18C	Microwave	42
6 - 18 GHz	75	75S6G18C	Microwave	42
6 - 18 GHz	125	125S6G18C	Microwave	43
6 - 18 GHz	250	250S6G18C	Microwave	43
6 - 18 GHz	250	250T6G18	TWT	59
6 - 18 GHz	500	500T6G18	TWT	60
7.5 - 18 GHz	250	250T8G18	TWT	60
7.5 - 18 GHz	500	500T8G18	TWT	61
7.5 - 18 GHz	1000	1000T8G18B	TWT	61
7.5 - 18 GHz	1000	1000TP8G18	TWT	69
7.5 - 18 GHz	1500	1500T8G18	TWT	62

Frequency	Power (W)	Model Number	Category	Page
7.5 - 18 GHz	2000	2000TP8G18	TWT	70
8 - 12 GHz	4000	4000TP8G12	TWT	70
8 - 12 GHz	8300	8300TP8G12	TWT	71
8 - 12 GHz	20000	20000TP8G12	TWT	71
12 - 18 GHz	3000	3000TP12G18	TWT	72
12 - 18 GHz	5700	5700TP12G18	TWT	72
18 - 26.5 GHz	40	40T18G26A	TWT	62
18 - 26.5 GHz	130	130T18G26z5B	TWT	63
18 - 26.5 GHz	200	200T18G26z5A	TWT	63
26.5 - 40 GHz	40	40T26G40A	TWT	64
26.5 - 40 GHz	130	130T26z5G40B	TWT	64
26.5 - 40 GHz	200	200T26z5G40A	TWT	65
40 - 50 GHz	70	70T40G50	TWT	65
40 - 50 GHz	100	100T40G50	TWT	66



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Description	Model Number	Page
Multi-Tone Test Systems		
Multi-Tone RF Radiated Immunity System, 2 Tones	MT2IEC10V3M	81
Multi-Tone RF Radiated Immunity System, 4 Tones	MT4IEC10V3M	82

Multi-Tone Testing

The MT4IEC10V3M (Multi-Tone Test System) is a state-of-the-art system that is designed to run RF Radiated Immunity tests faster than ever before. By testing multiple frequencies (tones) at once, test times are reduced by a factor equivalent to the number of tones selected. The number of tones is only limited by the number of signal generators and the size of the amplifier used with the system.



AR Predefined Test Systems Make Testing Easy

We have complete standard and custom test systems that perform entire RF & EMC tests with just the press of a few buttons. Everything you need – amplifiers, antennas, couplers, signal generators, system controllers, receivers, and more, along with the software to control it – all in one comprehensive system.

Your System, Your Way

AR is here for you at each step to ensure that the system design, integration, and support of your test system complies with your goals. AR has designed hundreds of EMC systems that vary in scope from a single, less complex rack of equipment for low field strength IEC 61000-4-3 testing to MIL-STD-461/464 test systems. Spanning from DC – 50 GHz, producing field strengths in excess of 4,000 V/m and everything in between AR Systems are in compliance with military, aviation, commercial and automotive test standards.

AR's Predefined Systems are designed to meet the minimum requirements of several of today's common EMC test standards. Depending on your needs, these systems can be used as is or tailored and customized to meet your specific requirements. Additionally, AR could also design a system that meets your needs from scratch.

AR Quality Backed by AR Protection

One of the added benefits of an AR test system is peace of mind. Every product in your AR test system is designed and built to the highest quality standards and backed by the most comprehensive warranty in the business and a global support network. When you have a question about any part of the system, you can call us. We've been here for over 50 years, and we'll continue to be here, serving your needs and engineering the products that meet tomorrow's challenges.



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Frequency Range
10 kHz – 50 GHz

Power Range
1 W – 20 kW



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Frequency	Power (W)	Model Number	Page
Log-Periodic			
26 – 250 MHz	15000	ATR26M250	84
26 MHz – 1 GHz	20000	ATR26M1G	84
26 MHz – 6 GHz	5000	ATR26M6G	85
26 MHz – 6 GHz	5000	ATR26M6G-1	85
80 MHz – 1 GHz	5000	ATL80M1G	86
80 MHz – 6 GHz	5000	ATR80M6G	86
150 MHz – 1 GHz	5000	ATL150M1G	87
200 MHz – 6 GHz	5000	ATR200M6G	88
700 MHz – 7.5 GHz	1200	ATT700M8G	88
700 MHz – 12 GHz	600	ATT700M12G	89
Horn			
200 MHz – 1 GHz	5000	ATH200M1G	90
200 MHz – 1 GHz	10000	ATH200M1G-1	90
200 MHz – 2 GHz	1000	ATH200M2G	90

Frequency	Power (W)	Model Number	Page
400 MHz – 1 GHz	4700	ATH400M1G	91
800 MHz – 6 GHz	2300	ATH800M6G	92
2 – 10 GHz	700	ATH2G10	93
4 – 8 GHz	1200	ATH4G8	93
6 – 8 GHz	3000	ATH6G18A	94
7.5 – 18 GHz	2800	ATH7G18A	94
18 – 26.5 GHz	350	ATH18G27A	95
18 – 26.5 GHz	350	ATH18G27A-1	95
18 – 40 GHz	450	ATH18G40	96
26.5 – 40 GHz	240	ATH26G40A-1	97
26.5 – 40 GHz	400	ATH26G40A	97

Frequency	Power (W)	Model Number	Page
E-Field Generators			
10 kHz – 25 MHz	3000	ATE10K25M-1	98
10 kHz – 30 MHz	1000	ATE10K30MA	99
10 kHz – 100 MHz	500	ATE10K100M	99
10 kHz – 100 MHz	3000	ATP10K100M	100

The antennas you need for virtually any testing procedures are right here at AR. We offer a complete variety of rugged, high power antennas, with expect field generation graphs. Since all are frequency and power matched to AR amplifiers, it's easy to precisely select the suitable unit.



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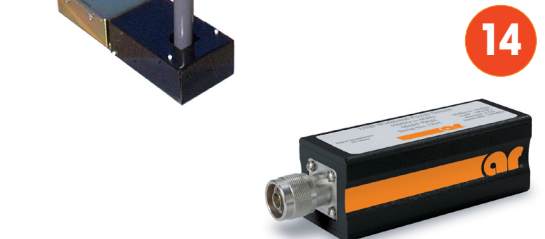
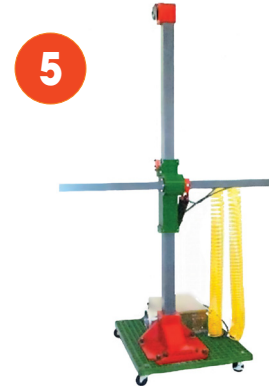
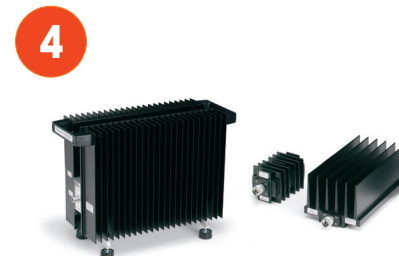
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RF Solid State Amplifiers

All our RF solid-state amplifiers have modulation capability that will faithfully reproduce AM, FM or Pulse Modulation appearing on the input signal for use in the most demanding EMC applications. These self-contained, broadband, completely solid-state amplifiers are designed for applications requiring the ultimate in output power over a wide instantaneous bandwidth with high gain.



500A250D



RF Solid State Amplifiers

Frequency Range
4 kHz – 1 GHz

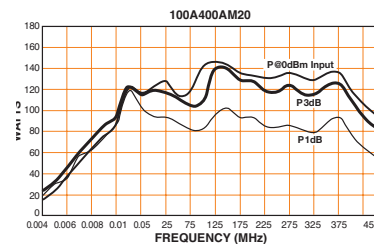
Power Range
1 W – 10 kW

100A400AM20 4 kHz – 400 MHz 100 W CW



Rated Output Power Into 50Ω: 4 kHz – 100 kHz: 10 W min. rising to 100 W min. at 100 kHz 100 kHz – 400 MHz: 125 W typ.; 100 W min.	
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB Compression Into 50Ω: 4 kHz – 100 kHz: 10 W min. rising to 100 W min. at 100 kHz 100 kHz – 400 MHz: 125 W typ.; 100 W min.	
Power Output @ 1 dB Compression Into 50Ω: 4 kHz – 100 kHz: 10 W min. rising to 75 W at 100 kHz 100 kHz – 400 MHz: 85 W typ.; 75 W min.	
Flatness	±1 dB typ. / ±1.5 dB max, 100 kHz – 400 MHz
Frequency Response	4 kHz–400 MHz instantaneously
Gain	(at max. setting) 50 dB min., 100 kHz – 400 MHz; <50 dB below 100 kHz
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.	
Harmonic Distortion Minus 20 dBc max. at 75 W, Minus 30 dBc typical at 50 W (.01 – 400 MHz)	
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.

Primary Power	100 – 240 VAC, 50 / 60 Hz, 500 W
Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D female
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	18.5 kg (41 lb.)
Without cabinet	10.4 kg (23 lb.)
Size (WxHxD)	
With cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99

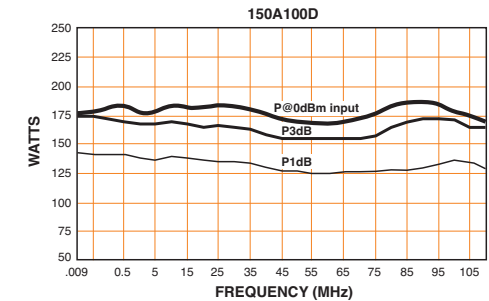


150A100D 10 kHz – 100 MHz 150 W CW



Rated Output Power	180 W typ., 150 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression Typical: 165 W / min. 140 W	
Power Output @ 1 dB compression Typical: 135 W / min. 110 W	
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response	10 kHz – 100 MHz instantaneously
Gain (at max. setting)	51.8 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms nominal.
Mismatch Tolerance* 100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.	
Noise Figure	9 dB typ.
Harmonic Distortion Minus 20 dBc max. at 100 W Minus 30 dBc typ. at 70 W	
Third Order Intercept Point	55 dBm typ.
Spurious	Minus 73 dBc typ.
Primary Power 100 – 240 VAC 50/60 Hz 500 W	

Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin subminiature D
Cooling Forced air (self-contained fans)	
Weight	
With cabinet	18.5 kg (41 lb.)
Without cabinet	10.4 kg (23 lb.)
Size (WxHxD)	
With cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99



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RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

1200A225B

10 kHz – 225 MHz
1200 W CW



Rated Output Power

Typ.: 1,350 W, min. 1,200 W, .01 – 100 MHz
Typ.: 1,250 W, min. 1,100 W, 100 – 225 MHz

Input for Rated Output

1 milliwatt max.

Power Output @ 3 dB compression

Typ.: 1,350 W, min. 1,200 W, .01 – 100 MHz
Typ.: 1,250 W, min. 1,000 W, 100 – 225 MHz

Power Output @ 1 dB compression

Typ.: 1,250 W, min. 1,100 W, .01 – 100 MHz
Typ.: 900 W, min. 750 W, 100 – 225 MHz

Flatness

±2 dB typ., ±2.5 dB max.

Frequency Response

10 kHz–225 MHz instantaneously

Gain (small signal)

62 dB min.

Gain Adjustment (continuous range)

>20 dB

Input Impedance

50 ohms, VSWR to 2.0:1 max.

Output Impedance

50 ohms nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.

Harmonic Distortion

Minus 30 dBc typical, minus 20 dBc maximum at 1000 W

Third Order Intercept Point

72 dBm typ.

Primary Power

200 – 240 VAC single-phase
50/60 Hz, 4.0 kW

Connectors

RF Input: N female
RF Output: 7-16 DIN female
Remote Control: 24-pin female
IEEE-488: 9-pin subminiature D (female)
RS-232: ST Conn Tx and Rx RS-232
Fiber optic: Type B
USB 2: RJ-45
Ethernet: 15-pin subminiature D
Safety Interlock

Cooling

Forced air (self-contained fans)

Weight

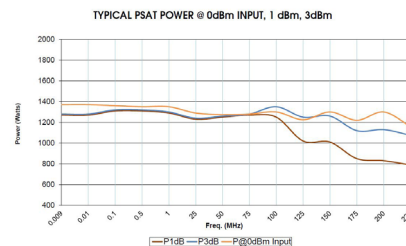
23.1 kg (151 lbs)

Size (WxHxD)

50.3 x 47 x 65.3 cm / 19.8 x 18.5 x 25.7 in

Export classification

EAR99



2500A225C

10 kHz – 225 MHz
2500 W CW



Rated Output Power

Typ.: 2,800 W, min. 2,500 W, .01 – 100 MHz
Typ.: 2,300 W, min. 2,000 W, 100 – 225 MHz

Input for Rated Output

1 milliwatt max.

Power Output @ 3 dB compression

Typ.: 2,800 W, min. 2,500 W, .01 – 100 MHz
Typ.: 2,300 W, min. 2,000 W, 100 – 200 MHz
Typ.: 2,000 W, min. 1,800 W, 200 – 225 MHz

Power Output @ 1 dB compression

Typ.: 2,400 W, min. 2,000 W, .01 – 100 MHz
Typ.: 1,900 W, min. 1,500 W, 100 – 200 MHz
Typ.: 1,500 W, min. 1,300 W, 200 – 225 MHz

Flatness

±1.5 dB typ., ±2.5 dB max.

Frequency Response

10 kHz – 225 MHz instantaneously

Gain (small signal)

64 dB min.

Gain Adjustment (continuous range)

20 dB

Input Impedance

50 ohms, VSWR 2.0:1 max.

Output Impedance

50 ohms nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.

Harmonic Distortion @ 1750 W

Minus 40 dBc typical, minus 20 dBc maximum at 1,750 W

Third Order Intercept Point

74 dBm typ.

Spurious

Minus 70 dBc typ.

Primary Power (user must specify):

200–240 VAC or 380–415 VAC 3-phase
50/60 Hz
8.0 kW

Connectors

RF Input: N female
RF Output: 7-16 DIN female
Sample Ports: N female
Remote Package: 24-pin female
IEEE-488: 9-pin subminiature D (female)
RS-232: ST Conn Tx and Rx RS-232
Fiber optic: Type B
USB 2: RJ-45
Ethernet: 15-pin subminiature D
Safety Interlock

Cooling

Forced air (self-contained fans)

Weight

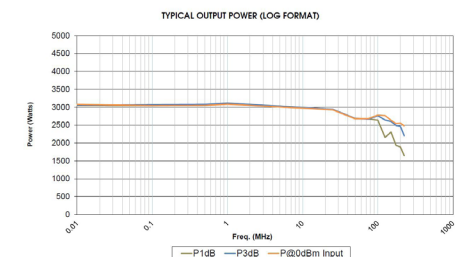
204 kg (450 lbs)

Size (WxHxD)

57.4 x 136 x 67.1 cm / 22.6 x 53.5 x 26.5 in.

Export classification

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Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

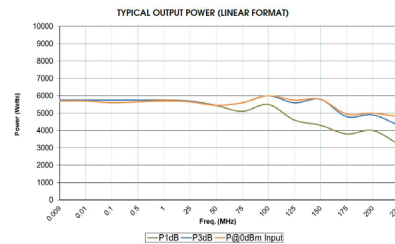
5000A225C

10 kHz – 225 MHz
5000 W CW



Rated Output Power	
Typ.: 5,500 W, min. 5000 W, .01 – 100 MHz Typ.: 4,500 W, min. 4000 W, 100 – 225 MHz	
Input for Rated Output	1 mW max.
Power Output @ 3 dB compression	
Typical: 5,500 W, min. 5000 W, .01 – 100 MHz Typical: 4,500 W, min. 4000 W, 100 – 150 MHz Typical: 4250 W, min 3750 W, 150 – 225 MHz	
Power Output @ 1 dB compression	
Typical: 5000 W, min 4000 W, .01 – 100 MHz Typical: 4000 W, min 3000 W, 100 – 150 MHz Typical: 3250 W, min 2750 W, 150 – 225 MHz	
Flatness	±1.5 dB typ., ±2.5 dB max.
Frequency Response	10 kHz–225 MHz instantaneously
Gain (small signal)	67 dB min.
Gain Adjustment[†] (continuous range)	>20 dB
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms nominal
Mismatch Tolerance	
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.	
Harmonic Distortion @ 3750 W	
Minus 30 dBc typ., minus 20 dBc max. at 3750 W	
Third Order Intercept Point	77 dBm typ.
Spurious	Minus 70 dBc typ.

Primary Power (user must specify): 200 – 240 VAC or 380-415 VAC, 3-phase, 50/60Hz, 17 kW	
Connectors	
RF Input:	N female
RF Output:	EIA 1–5/8 male, rear
Remote Control	
IEEE–488	24-pin female
RS–232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS–232
USB 2	Type B
Ethernet	RJ–45
Safety Interlock	15-pin subminiature D
Cooling	
Forced air (self-contained fans)	
Weight	295 kg (650 lbs)
Size (WxHxD)	
57.4 x 181 x 95.5 cm/ 22.6 x 71.25 x 37.6 in.	
Export classification	
EAR99	



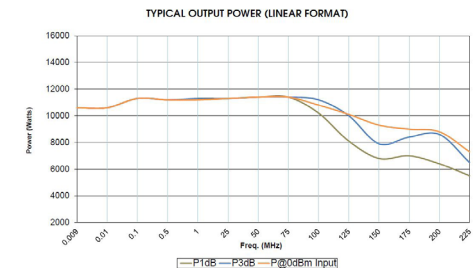
10000A225B

10 kHz – 225 MHz
10000 W CW



Rated Output Power	
Nominal	12500 W
Minimum	10000 W, .01 – 100 MHz 7000 W, 100 – 225 MHz
Input for Rated Output	1 milliwatt max.
Power Output for 1 dB compression	
Nominal	9000 W
Minimum	10000 W, .01 – 50 MHz, 8000 W, 50 – 100 MHz, 5500 W, 100 – 150 MHz 5000 W, 150 – 225 MHz
Flatness	
±2.5 dB max. ±1.5 dB typ.	
Frequency Response	10 kHz–225 MHz instantaneously
Gain (small signal)	70 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
RF Load Reflected	
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.	
Harmonic Distortion @ 7500 W	Minus 20 dBc max.
Third Order Intercept Point	77 dBm typ.
Primary Power (user must specify):	
200 – 240 VAC, Delta (4 wire) 380 – 415 VAC, Delta (4 wire) 47 – 63 Hz, 3-phase 35000 W max.	

Connectors	
RF Input	Type N female on rear panel
RF Output	Type EIA 1–5/8 male on rear panel
RF Sample	Type N female on front panel
Safety Interlock	15-pin female Type D on rear panel
Remote Control	
IEEE–488	24-pin female on rear panel
RS–232	9-pin female Type D
RS–232 (fiber optic):	Type ST
USB 2:	Type B
Ethernet:	RJ–45
Cooling	
Forced air (self-contained fans)	
Weight	590 kg (1300 lbs)
Size (WxHxD)	
112.2 x 181.6 x 97.8 cm / 44.2 x 71.5 x 38.5 in.	
Export classification	
EAR99	



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Frequency Range
10 kHz – 1 GHz

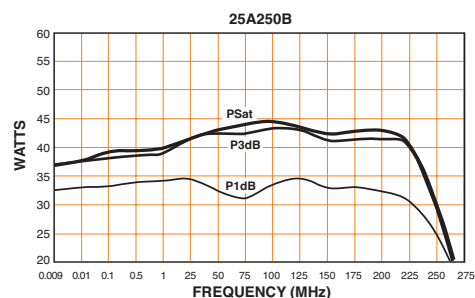
Power Range
1 W – 10 kW

25A250B 10 kHz – 250 MHz 25 W CW



Rated Output Power	35 W typ., 25 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 35 W / min. 25 W
Power Output @ 1 dB compression	Typ. 30 W / min. 20 W
Flatness	±1 dB typ. / ±1.5 dB max.
Frequency Response	10 kHz–250 MHz instantaneously
Gain (at max. setting)	44 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Harmonic Distortion	Minus 20 dBc max. at 20 W, Minus 35 dBc typ. at 15 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.

Primary Power	100 – 240 VAC 50 / 60 Hz, 200 W
Connectors	RF Input Type N female RF Output Type N female
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D female Fiber optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 16.7 kg (37 lb.) Without cabinet 8.6 kg (19 lb.)
Size (WxHxD)	With cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. Without cabinet 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99

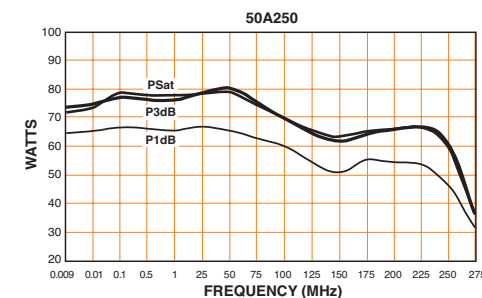


50A250 10 kHz – 250 MHz 50 W CW



Rated Output Power	70 W typ., 50 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 70 W / min. 50 W
Power Output @ 1 dB compression	Typ. 55 W / min. 40 W
Flatness	±1 dB typ. / ±1.5 dB max.
Frequency Response	10 kHz – 250 MHz instantaneously
Gain (at max. setting)	47 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Harmonic Distortion	Minus 20 dBc max. at 40 W, Minus 30 dBc typ. at 30 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 250 W

Connectors	RF Input Type N female RF Output Type N female
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D female Fiber optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 16.7 kg (37 lb.) Without cabinet 8.6 kg (19 lb.)
Size (WxHxD)	With cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. Without cabinet 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99



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Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

125A250

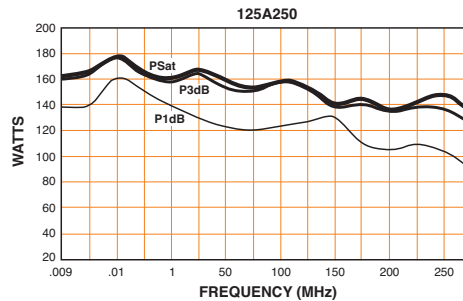
10 kHz – 250 MHz
125 W CW



Rated Output Power	150 W typ., 125 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typical: 145 W / min. 125 W
Power Output @ 1 dB compression	Typical: 110 W / min. 90 W
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response	10 kHz – 250 MHz instantaneously
Gain (at max. setting)	50 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms nominal.
Mismatch Tolerance*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 90 W Minus 30 dBc typ. at 70 W
Third Order Intercept Point	55 dBm typ.
Spurious	Minus 73 dBc typ.
Primary Power	100 – 240 VAC 50/60 Hz 500 W

Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin subminiature D
Cooling	
Forced air (self-contained fans)	
Weight	
With cabinet	18.5 kg (41 lb.)
Without cabinet	10.4 kg (23 lb.)
Size (WxHxD)	
With cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.

Export classification EAR99



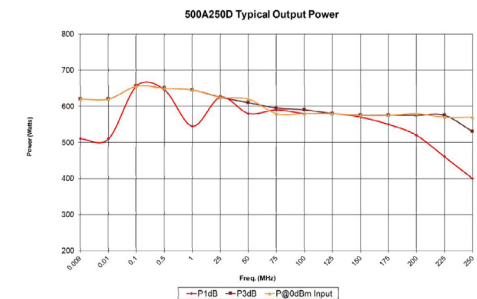
500A250D

10 kHz – 250 MHz
500 W CW



Rated Output Power	600 W typ., 525 W min., .01 – 250 MHz
Power Output @ 3 dB compression	600 W typ., 525 W min., 0.01 – 200 MHz 550 W typ., 475 W min., 200 MHz – 250 MHz
Power Output @ 1 dB compression	550 W typ., 475 W min., 0.01 – 200 MHz 425 W typ., 375 W min., 200 MHz – 250 MHz
Flatness	±1.5 dB typ., ±2 dB max.
Frequency Response	10 kHz–250 MHz instantaneously
Gain (at max. setting)	57.2 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms nominal.
Mismatch Tolerance*	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Noise Figure	7 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 400 W; <-20 dBc typ. at 500 W
Third Order Intercept Point	68 dBm typ.
Spurious	Minus 73 dBc typ.
Primary Power	200 – 240 VAC 50 / 60 Hz, 2,400 W

Connectors	
RF Input	Type N female
RF Output	Type N female
RF Sample Ports	Type N female (optional)
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin subminiature D
Cooling	
Forced air (self-contained fans)	
Weight	
With Cabinet	78 kg (171 lb.)
Without Cabinet	58 kg (128 lb.)
Size (WxHxD)	
With Cabinet	50.3 x 38.1 x 75.5 cm / 19.8 x 15 x 29.7 in.
Without Cabinet	48.3 x 35.6 x 75.5 cm / 19 x 14 x 29.7 in.
Export classification	
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Frequency Range
10 kHz – 1 GHz

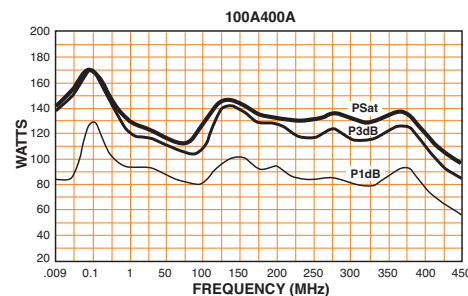
Power Range
1 W – 10 kW

100A400A 10 kHz – 400 MHz 100 W CW



Rated Output Power	130 W typ., 100 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 125 W / min. 100 W
Power Output @ 1 dB compression	Typ. 85 W / min. 75 W
Flatness	±1 dB typ. / ±1.5 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	50 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Harmonic Distortion	Minus 20 dBc max. at 75 W, Minus 30 dBc typical at 50 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 500 W

Connectors	RF Input Type N female RF Output Type N female
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D female Fiber optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 18.5 kg (41 lb.) Without cabinet 10.4 kg (23 lb.)
Size (WxHxD)	With cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. Without cabinet 48.3 x 13.2 x 55.1 cm / 19.8 x 5.2 x 21.7 in.
Export classification	EAR99

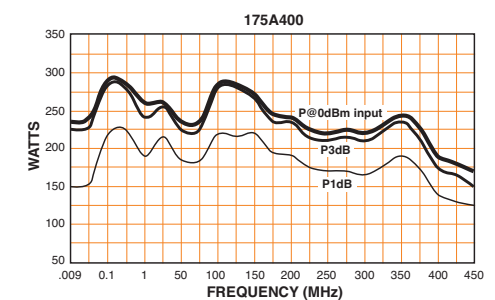


175A400 10 kHz – 400 MHz 175 W CW



Rated Output Power	225 W typ., 175 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 210 W / min. 165 W
Power Output @ 1 dB compression	Typ. 165 W / min. 125 W
Flatness	±0.9 dB typ. / ±1.5 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	52.5 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Harmonic Distortion	Minus 20 dBc max. at 150 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	60 dBm typ.
Noise Figure	8.5 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 770 W

Connectors	RF Input Type N female RF Output Type N female
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D female Fiber optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 33 kg (73 lb.) Without cabinet 22 kg (48 lb.)
Size (WxHxD)	With cabinet 50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. Without cabinet 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
Export Classification	EAR99



RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

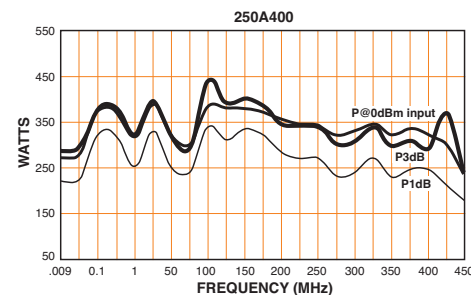
250A400

10 kHz – 400 MHz
250 W CW



Rated Output Power	325 W typ., 250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 325 W / min. 250 W
Power Output @ 1 dB compression	Typ. 250 W / min. 200 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (small signal)	54 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Harmonic Distortion	Minus 20 dBc max. at 250 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	65 dBm typ.
Noise Figure	8.5 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 1,350 W

Connectors	RF Input RF Output	Type N female Type N female
Remote Interfaces	IEEE-488 RS-232 Fiber optic USB 2 Ethernet	24-pin female 9-pin Subminiature D female ST Conn Tx and Rx RS-232 Type B RJ-45
Safety Interlock	15-pin Subminiature D	
Cooling	Forced air (self-contained fans)	
Weight	With cabinet Without cabinet	45 kg (98 lb.) 33 kg (73 lb.)
Size (WxHxD)	With cabinet Without cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
Export Classification	EAR99	



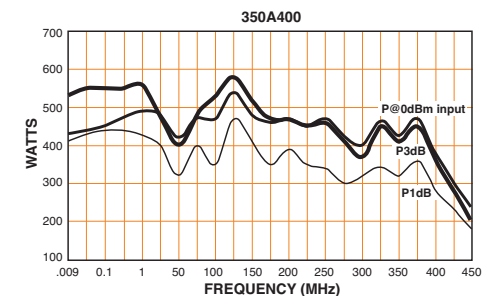
350A400

10 kHz – 400 MHz
350 W CW



Rated Output Power	425 W typ., 350 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 400 W / min. 325 W
Power Output @ 1 dB compression	Typ. 325 W / min. 225 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	55.5 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
Harmonic Distortion	Minus 20 dBc max. at 300 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	65 dBm typ.
Noise Figure	8.5 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 1,750 W

Connectors	RF Input RF Output	Type N female Type N female
Remote Interfaces	IEEE-488 RS-232 Fiber optic USB 2 Ethernet	24-pin female 9-pin Subminiature D female ST Conn Tx and Rx RS-232 Type B RJ-45
Safety Interlock	15-pin Subminiature D	
Cooling	Forced air (self-contained fans)	
Weight	With cabinet Without cabinet	48 kg (104 lb.) 35 kg (78 lb.)
Size (WxHxD)	With cabinet Without cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
Export Classification	EAR99	



RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

600A400

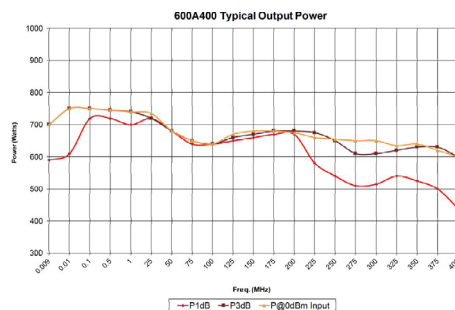
10 kHz – 400 MHz
600 W CW



Rated Output Power	700 W typ., 600 W min.; .01 – 250 MHz
	600 W typ., 525 W min.; 250 MHz – 400 MHz
Power Output @ 3 dB compression	650 W typ., 600 W min.; .01 – 250 MHz
	600 W typ., 525 W min.; 250 MHz – 400 MHz
Power Output @ 1 dB compression	575 W typ., 500 W min.; .01 – 250 MHz
	500 W typ., 400 W min.; 250 MHz – 400 MHz
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	57.8 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Harmonic Distortion	Minus 20 dBc maximum at 500 W;
	<–20 typical at 600 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	67 dBm typ.
Noise Figure	7.5 dB typ.
Primary Power	200 – 240 VAC
	50 / 60 Hz, 2,950 W

Connectors	RF Input	Type N female
	RF Output	Type 7-16 DIN
	RF Sample Ports:	Type N female (optional)
Remote Interfaces	IEEE–488	24-pin female
	RS–232	9-pin Subminiature D female
	Fiber optic	ST Conn Tx and Rx RS–232
	USB 2	Type B
	Ethernet	RJ–45
Safety Interlock	15-pin Subminiature D	
Cooling	Forced air (self-contained fans)	
Weight	With cabinet	87 kg (191 lb.)
	Without cabinet	68 kg (148 lb.)
Size (WxHxD)	With cabinet	50.3 x 38.1 x 75.5 cm / 19.8 x 15 x 29.7 in.
	Without cabinet	48.3 x 35.6 x 75.5 cm / 19 x 14 x 29.7 in.

Export Classification EAR99



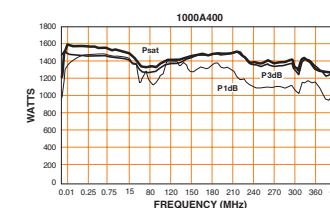
1000A400

10 kHz – 400 MHz
1000 W CW



Rated Output Power	1,200 W typ., 1000 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 1,200 W / min. 1000 W
Power Output @ 1 dB compression	Typ. 1000 W / min. 800 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	60 dB min.
Gain Adjustment (continuous range)	25 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Harmonic Distortion	Minus 20 dBc max. at 1000 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	68 dBm typ.
Noise Figure	8 dB typ.
Primary Power	200 – 240 VAC
	3-phase, 50/60 Hz, 5.2 kW

Connectors	RF Input	Type N female
	RF Output	7–16 DIN female, rear
Remote Interfaces	IEEE–488	24-pin female
	RS–232	9-pin Subminiature D female
	Fiber optic	ST Conn Tx and Rx RS–232
	USB 2	Type B
	Ethernet	RJ–45
Safety Interlock	15-pin Subminiature D	
Cooling	Forced air (self-contained fans)	
Weight	124.8 kg (275 lb.)	
Size (WxHxD)	56.1 x 97.8 x 82.5 cm / 22.1 x 38.5 x 32.5 in.	
Environmental	Operating Temperature:	5°C / +40°C
	Operating Altitude:	Up to 2000 M
	Shock and vibration:	Normal Truck Transport
Regulatory Compliance	EMC	EN 61326–1
	Safety	UL 61010–1, CAN/CSA C22.2 #61010–1
		CENELEC EN 61010–1
	RoHS	DIRECTIVE 2011/65/EU
Export Classification	EAR99	



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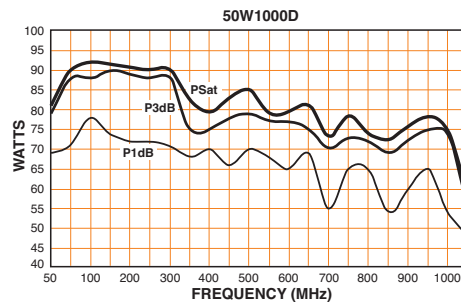
Power Range
1 W – 10 kW

50W1000D 50 – 1000 MHz 50 W CW



Rated Output Power	70 W typ., 50 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 70 W / min. 60 W
Power Output @ 1 dB compression	Typ. 60 W / min. 45 W
Flatness	± 1 dB typ. / ± 1.5 dB max.
Frequency Response	50–1000 MHz instantaneously
Gain (at max. setting)	48 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Harmonic Distortion	Minus 20 dBc max. at 50 W, Minus 30 dBc typ. at 50 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.

Primary Power	100 – 240 VAC 50 / 60 Hz, 250 W
Connectors	RF Input Type N female RF Output Type N female
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D female Fiber optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 17.7 kg (39 lb.) Without cabinet 9.5 kg (21 lb.)
Size (WxHxD)	With cabinet 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. Without cabinet 48.3 x 13.2 x 55.1 cm / 19.8 x 5.2 x 21.7 in.
Export classification	EAR99

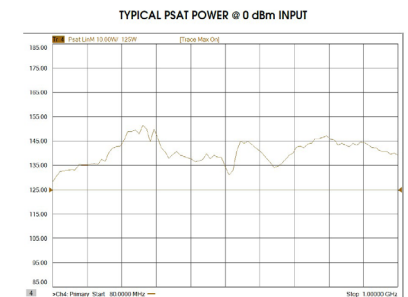


125W1000A 80 – 1000 MHz 125 W CW



Rated Output Power	140 W typical, 125 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 130 W / min. 120 W
Power Output @ 1 dB compression	Nominal 120 W / min. 100 W
Flatness	± 1.5 dB typ. / ± 2 dB max.
Frequency Response	80–1000 MHz instantaneously
Gain (small signal)	55 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2.0:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.
Noise Figure	8 dB max.; 6 dB typ.
Harmonic Distortion	Minus 20 dBc maximum at 100 W; minus 30 dBc typical at 100 W
Third Order Intercept Point	58 dBm typ.
Spurious	Minus 73 dBc typ.

Primary Power	100 – 240 VAC 50/60 Hz, 600 W
Connectors	RF Input Type N female on front panel RF Output Type N female on front panel
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) Fiber Optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 26.5 kg (58.5 lb.) Without cabinet 15.8 kg (34.75 lb.)
Size (WxHxD)	With cabinet 51 x 17 x 65.3 cm / 20.1 x 6.7 x 25.7 in. Without cabinet 48.3 x 13.4 x 65.3 cm / 19 x 5.3 x 25.7 in.
Export Classification	EAR99



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RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

150W1000B 80 – 1000 MHz 150 W CW

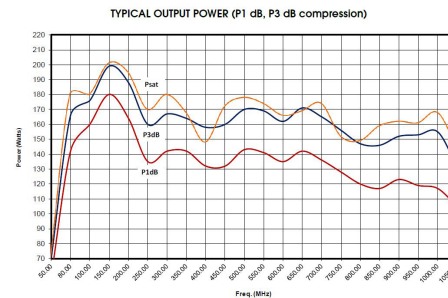


Rated Output Power	160 W typical, 130 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 150 W / min. 125 W
Power Output @ 1 dB compression	Nominal 125 W / min. 100 W
Flatness	± 1.5 dB typ. / ± 2 dB max.
Frequency Response	80–1000 MHz instantaneously
Gain (small signal)	53` dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.
Noise Figure	8 dB max.; 6 dB typ.
Harmonic Distortion	Minus 20 dBc maximum at 100 W; minus 30 dBc typical at 100 W
Third Order Intercept Point	58 dBm typ.
Spurious	Minus 73 dBc typ.

Primary Power	100 – 240 VAC 50/60 Hz, 650 W
Connectors	RF Input Type N female on front panel RF Output Type N female on front panel
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) Fiber Optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 36.7 kg (81 lb.) Without cabinet 25.4 kg (56 lb.)

Size (WxHxD)	With cabinet 50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. Without cabinet 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
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Export Classification	EAR99
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250W1000C 80 – 1000 MHz 250 W CW



Rated Output Power	300 W typ., 250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typical: 300 W, Minimum: 275 W up to 500 MHz; 250 W 500 – 1000 MHz
Power Output @ 1 dB compression	Typical: 250 W, Minimum: 225 W up to 500 MHz; 200 W 500 – 1000 MHz
Flatness	± 2 dB max. / ± 1.5 dB typ.
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	54 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
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Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.
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Noise Figure	8 dB max.; 6 dB typ.
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Harmonic Distortion	Minus 20 dBc maximum at 200 W; minus 30 dBc typical at 200 W
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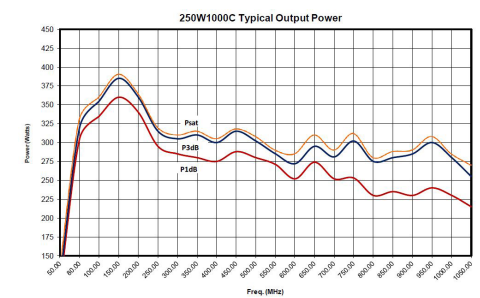
Third Order Intercept Point	62 dBm typ.
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Spurious	Minus 73 dBc typ.
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Primary Power	100 – 240 VAC 50/60 Hz, 1000 W
Connectors	RF Input Type N female on front panel RF Output Type N female on front panel
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) Fiber Optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 42.6 kg (94 lb.) Without cabinet 31.3 kg (69 lb.)

Size (WxHxD)	With cabinet 50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. Without cabinet 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
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10 kHz – 1 GHz

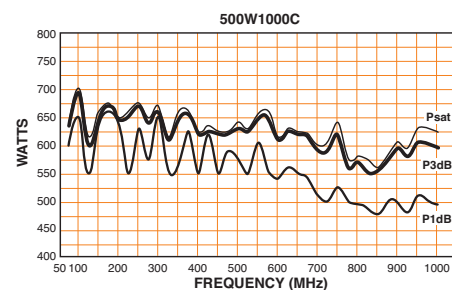
Power Range
1 W – 10 kW

500W1000C 80 – 1000 MHz 500 W CW

Rated Output Power	600 W typ., 500 W Minimum
Input for Rated Output	1 mW max.
Power Output @ 3 dB compression	Typical: 575 W, Minimum: 525 W up to 700 MHz; 475 W 700 – 1000 MHz
Power Output @ 1 dB compression	Typical: 500 W, Minimum: 450 W up to 700 MHz; 425 W 700 – 1000 MHz
Flatness	±1.0 dB max./±1.5 dB max.
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	57 dB min.
Gain Adjustment (continuous range)	25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.
Noise Figure	8 dB max.; 6 dB typ.
Harmonic Distortion	Minus 20 dBc maximum at 425 W; minus 30 dBc typical at 425 W
Third Order Intercept Point	63 dBm typ.
Spurious	Minus 73 dBc typ.



Primary Power	100 – 240 VAC 50/60 Hz, 1,800 W
Connectors	RF Input Type N female RF Output Type N female
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) Fiber Optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With cabinet 69.4 kg (153 lb.) Without cabinet 50.8 kg (112 lb.)
Size (WxHxD)	With cabinet 50.3 x 38.1 x 74.9 cm / 19.8 x 15 x 29.5 in. Without cabinet 48.3 x 35.6 x 74.9 cm / 19 x 14 x 29.5 in.
Export Classification	EAR99



800W1000 80 – 1000 MHz 800 W CW

Rated Output Power (80 - 650 MHz)	850 W typ., 800 W min.
Rated Output Power (650 - 1000 MHz)	800 W typ., 725 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typical: 900 W / 800 W min. up to 650 MHz, Typical 800 W / 700 W min. from 650 – 1000 MHz
Power Output @ 1 dB compression	Typical: 850 W / 725 W min. up to 650 MHz, Typical 700 W / 625 W min. from 650 – 1000 MHz
Flatness	±2.0 dB max; ±1.5 dB typ.
Frequency Response	80–1000 MHz instantaneously
Gain (small signal)	62 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.
Harmonic Distortion	Minus 20 dBc max. at 800 W
Third Order Intercept Point	66 dBm typ.
Spurious	Minus 73 dBc typ.
Noise Figure	8 dB max., 6 dB typ.



Primary Power	200 – 240 VAC 50 / 60 Hz, 2,800W
Connectors	RF Input Type N female RF Output Type 7–16 DIN female on rear panel
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) Fiber Optic ST Conn Tx and Rx RS-232 USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight (with cabinet)	64 kg (141 lb.)
Weight (without cabinet)	44.9 kg (110 lb.)
Size (WxHxD)	50.3 x 47 x 65.3 cm (19.8 x 18.5 x 25.7 in.)
Export Classification	EAR99



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RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

1000W1000H
80 – 1000 MHz
1000 W CW



Rated Output Power 1250 W typ., 1100 W min. (80 - 650 MHz)
1100 W typ., 1000 W min. (650 - 1000 MHz)

Input for Rated Output 1 milliwatt max.

Power Output @ 3 dB compression
Typical: 1,250 W / 1,100 W min. up to 650 MHz;
Typical 1100 W / 1000 W min. from 650 – 1000 MHz

Power Output @ 1 dB compression
Typical: 1150 W / 1050 W min. up to 650 MHz;
Typical 1000 W / 950 W min. from 650 – 1000 MHz

Flatness ± 2 dB max; ± 1.5 dB typ.

Frequency Response 80–1000 MHz instantaneously

Gain (small signal) 62 dB min.

Gain Adjustment (continuous range) 20 dB min.

Input Impedance 50 ohms, VSWR 1.5:1 max.

Output Impedance 50 ohms, nominal

Mismatch Tolerance
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.

Harmonic Distortion @ 1000 W
Minus 20 dBc max.
Minus 40 dBc typ.

Third Order Intercept Point 66 dBm typ.

Spurious Minus 73 dBc typ.

Noise Figure 8 dB max., 6 dB typ.

Primary Power 200 – 240 VAC
50 / 60 Hz, 3,750 W

Connectors
RF Input Type N female
RF Output Type 7–16 DIN female on rear panel

Remote Interfaces
IEEE–488 24-pin female
RS–232 9-pin Subminiature D (female)
Fiber Optic ST Conn Tx and Rx RS–232
USB 2 Type B
Ethernet RJ–45

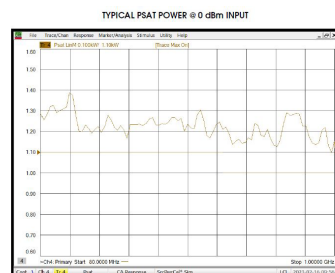
Safety Interlock 15-pin Subminiature D

Cooling Forced air (self-contained fans)

Weight 156 kg (343 lb.)

Size (WxHxD) 57.3 x 136.0 x 67.1 cm / 22.6 x 53.5 x 26.5 in.

Export Classification EAR99



2000W1000E
80 – 1000 MHz
2000 W CW



Rated Output Power 2,400 W typ., 2000 W min.

Input for Rated Output 1 milliwatt max.

Power Output @ 3 dB compression
Nominal 2,200 W / 1900 W min.

Power Output @ 1 dB compression
Nominal 2,000 W / 1,700 W min.

Flatness ± 2 dB max. / ± 1.5 dB typ.

Frequency Response 80–1000 MHz instantaneously

Gain (small signal) 66 dB min.

Gain Adjustment (continuous range) 20 dB min.

Input Impedance 50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.

Output Impedance 50 ohms, nominal

Mismatch Tolerance
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
However, mismatch above 6:1 may limit output to 1000 watts reflected power.

Harmonic Distortion @ 2000 W – 20 dBc max.
– 30 dBc typ.

Third Order Intercept Point 70 dBm typ.

Spurious Minus 73 dBc typ.

Noise Figure 8 dB max., 6 dB typ.

Primary Power (user must specify)
200 – 240 VAC, Delta-connected (4-wire)
380 – 415 VAC, Wye-connected (5-wire)
50 / 60 Hz, 3 phase, 7.0 kW

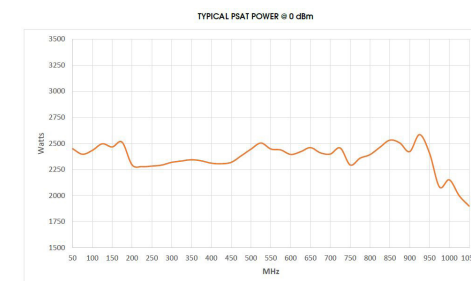
Connectors
RF Input Type N female on rear panel
RF Output Type 1 5/8 female on rear panel
Forward Sample N female, front
Reverse Sample N female, front
Remote Interfaces:
IEEE–488 24-pin female
RS–232 9-pin Subminiature D, female
Fiber Optic ST Conn Tx and Rx RS–232
USB 2 Type B
Ethernet RJ–45
Safety Interlock 15-pin female subminiature D, rear panel

Cooling Forced air (self-contained fans)

Weight (approximate) 273 kg (600 lb.)

Size (WxHxD) (3 cabinets) 57.3 x 136.0 x 95.5 cm / 22.6 x 53.5 x 37.6 in.

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RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

3000W1000B 80 – 1000 MHz 3000 W CW



Rated Output Power	3000 W typ., 2800 W min
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 3000 W / 2,600 W min. up to 500 MHz; 2,400 W from 500 – 1000 MHz
Power Output @ 1 dB compression	Nominal 2,500 W / 2,250 W min. up to 500 MHz; 1,850 W from 500 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80 – 1000 MHz instantaneously
Gain (at max. setting)	64.8 dB min.
Gain Adjustment (continuous range)	25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 1,500 W reflected power.
Harmonic Distortion	Minus 20 dBc max. at 2,400 W, –20 dBc typ. at 3000 W
Third Order Intercept Point	72 dBm typ.
Noise Figure	8 dB max., 6 dB typ.
Primary Power (user must specify)	200 – 240 VAC, Delta connected (4–wire) 360 – 435 VAC, Wye connected (5–wire) 50 / 60 Hz, 3 phase, 14 kVA

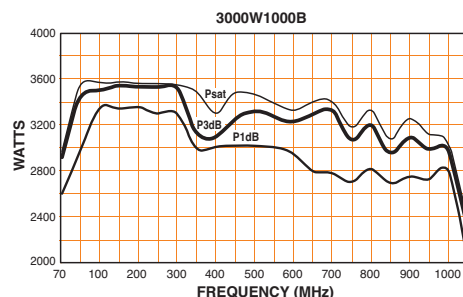
Connectors	
RF Input	Type N female on rear panel
RF Output	Type 1 5/8 female on rear panel
Forward Sample	Type N female, front
Reverse Sample	Type N female, front
Remote Interfaces:	
IEEE–488	24–pin female
RS–232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS–232
USB 2	Type B
Ethernet	RJ–45
Safety Interlock	15–pin female subminiature D, rear panel

Cooling	Forced air (self–contained fans), enters front and bottom
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Weight (approximate)	364 kg (800 lb.)
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Size (WxHxD) (2 joined cabinets)	111.8 x 177.8 x 97.6 cm / 44 x 70 x 38.4 in.
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Export classification	EAR99
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4000W1000B 80 – 1000 MHz 4000 W CW



Rated Output Power	4000 W typ., 3700 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 4000 W / 3,600 W min. up to 500 MHz; 3,400 W from 500 – 1000 MHz
Power Output @ 1 dB compression	Nominal 3,500 W / 3000 W min. up to 500 MHz; 2,500 W from 500 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80 – 1000 MHz instantaneously
Gain (at max. setting)	66 dB min.
Gain Adjustment (continuous range)	25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 2000 W reflected power.
Harmonic Distortion	Minus 20 dBc max. at 3,400 W, –20 dBc typ. at 4000 W
Third Order Intercept Point	73 dBm typ.
Noise Figure	8 dB max., 6 dB typ.
Primary Power (user must specify)	200 – 240 VAC, Delta connected (4–wire) 360 – 435 VAC, Wye connected (5–wire) 50 / 60 Hz, 3 phase, 17.5 kVA

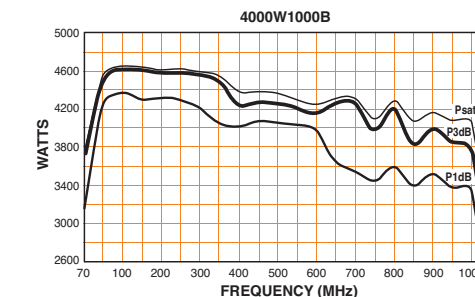
Connectors	
RF Input	Type N female on rear panel
RF Output	Type 1 5/8 female on rear panel
Forward Sample	Type N female, front
Reverse Sample	Type N female, front
Remote Interfaces:	
IEEE–488	24–pin female
RS–232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS–232
USB 2	Type B
Ethernet	RJ–45
Safety Interlock	15–pin female subminiature D, rear panel

Cooling	Forced air (self–contained fans), enters front and bottom
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Weight (approximate)	432 kg (950 lb.)
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Size (WxHxD) (2 joined cabinets)	111.8 x 177.8 x 97.6 cm / 44 x 70 x 38.4 in.
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Export classification	EAR99
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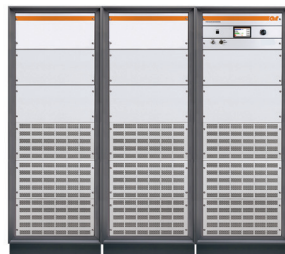


RF Solid State Amplifiers

Frequency Range
10 kHz – 1 GHz

Power Range
1 W – 10 kW

6000W1000 80 – 1000 MHz 6000 W CW



Rated Output Power	6000 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 6000 W / 5,500 W min. up to 700 MHz; 5,100 W from 700 – 1000 MHz
Power Output @ 1 dB compression	Nominal 5,500 W / 5000 W min. up to 700 MHz; 4,500 W from 700 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	67.8 dB min.
Gain Adjustment (continuous range)	25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 3000 W reflected power.
Harmonic Distortion	Minus 20 dBc max. at 5,500 W, –20 dBc typ. at 6000 W
Third Order Intercept Point	75 dBm typ.
Noise Figure	8 dB max., 6 dB typ.
Primary Power (user must specify)	200 – 240 VAC, Delta connected (4–wire) 360 – 435 VAC, Wye connected (5–wire) 50 / 60 Hz, 3 phase, 24 kVA

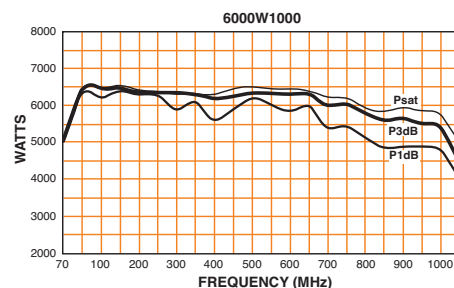
Connectors	
RF Input	Type N female on rear panel
RF Output	Type 3 1/8 EIA female on rear panel
Forward Sample	Type N female, front
Reverse Sample	Type N female, front
Remote Interfaces:	
IEEE–488	24–pin female
RS–232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS–232
USB 2	Type B
Ethernet	RJ–45
Safety Interlock	15–pin female subminiature D, rear panel

Cooling
Forced air (self-contained fans), enters front and bottom

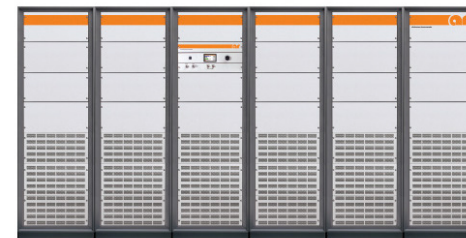
Weight (approximate) 703 kg (1,550 lb.)

Size (WxHxD) (3 joined cabinets)
170 x 183 x 99 cm / 67 x 72 x 39 in.

Export classification EAR99



10000W1000A 80 – 1000 MHz 10000 W CW



Rated Output Power	Nominal, 12,500 W 12000 W min. up to 700 MHz 10,500 W min., 700 – 1000 MHz
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 12,500 W / 12000 W min. up to 700 MHz; 10000 W from 700 – 1000 MHz
Power Output @ 1 dB compression	Nominal 11000 W / 10,500 W min. up to 700 MHz; 9,500 W from 700 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	70 dB min.
Gain Adjustment (continuous range)	25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 6000 W reflected power.
Modulation Capability	Faithfully reproduces AM, FM, or pulse modulation appearing on input signal.
Harmonic Distortion	Minus 20 dBc max. at 10000 W, –25 dBc typ. at 10000 W

Third Order Intercept Point	78 dBm typ.
Noise Figure	8 dB max., 6 dB typ.
Primary Power (specify voltage)	200 – 240 VAC, Delta connected (4–wire), 360 – 435 VAC, Wye connected (5–wire) 50 / 60 Hz, three phase, 48000W

Connectors	
RF Input	Type N female on rear panel
RF Output	Type 4–1/16 EIA, rear panel
Forward Sample	N female, front
Reverse Sample	N female, front
Remote Interfaces:	
IEEE–488	24–pin female
RS–232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS–232
USB 2	Type B
Ethernet	RJ–45
Safety Interlock	15–pin female subminiature D, rear panel

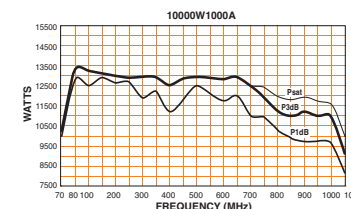
Cooling
Forced air (self-contained fans), enters front and bottom

SYSTEM: 2 3–bay racks

Weight (approximate) 1,407 kg (3,100 lb.)

Size (WxHxD)
340 x 183 x 99 cm / 134 x 72 x 39 in.

Export classification EAR99



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Universal Series Amplifiers

The "U" Series is a customizable, Class A design is ideal for universal applications such as laboratory and EMC testing, testing antennas, components, piezoelectric devices, wireless chargers, and more. The "U" Series are single band amplifiers available in 3dB increments, up to 500 W of power, and span 10 kHz - 1000 MHz.



Universal Series Amplifiers

Frequency Range
10 kHz – 1000 MHz

Power Range
1 – 500 W

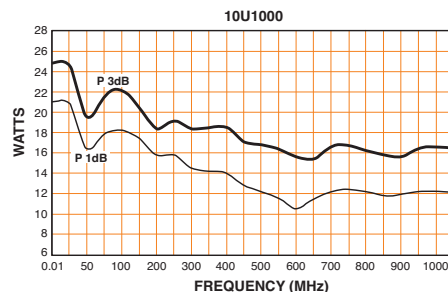
10U1000

10 kHz – 1000 MHz
10 W CW



Rated Output Power	15 W typ., 10 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 15 W / min. 10 W
Power Output @ 1 dB compression	Typ. 12 W / min. 10 W
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response	10 kHz – 1000 MHz instantaneously
Gain (at max. setting)	40 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	50 dBm typ.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 10 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, 150 W

Connectors	RF Input RF Output	Type N female Type N female
Remotes Package	IEEE-488 RS-232 Fiber optic USB 2 Ethernet Safety Interlock	24-pin female 9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Type B RJ-45 15-pin subminiature D
Cooling	Forced air (self-contained fans)	
Weight	With Cabinet Without Cabinet	17.7 kg (41 lb.) 9.5 kg (23 lb.)
Size (WxHxD)	With Cabinet Without Cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99	



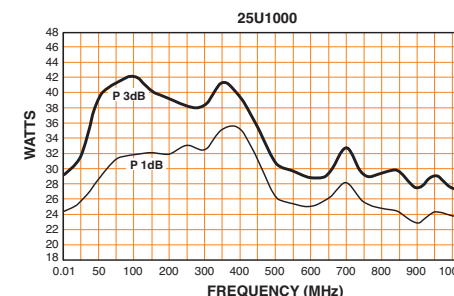
25U1000

10 kHz – 1000 MHz
25 W CW



Rated Output Power	30 W typ., 25 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 30 W / min. 25 W
Power Output @ 1 dB compression	Typ. 25 W / min. 20 W
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response	10 kHz – 1000 MHz instantaneously
Gain (at max. setting)	44 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	52 dBm typ.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 20 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, 200 W

Connectors	RF Input RF Output	Type N female Type N female
Remotes Package	IEEE-488 RS-232 Fiber optic USB 2 Ethernet Safety Interlock	24-pin female 9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Type B RJ-45 15-pin subminiature D
Cooling	Forced air (self-contained fans)	
Weight	With Cabinet Without Cabinet	17.7 kg (41 lb.) 9.5 kg (23 lb.)
Size (WxHxD)	With Cabinet Without Cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99	



Universal Series Amplifiers

Frequency Range
10 kHz – 1000 MHz

Power Range
1 – 500 W

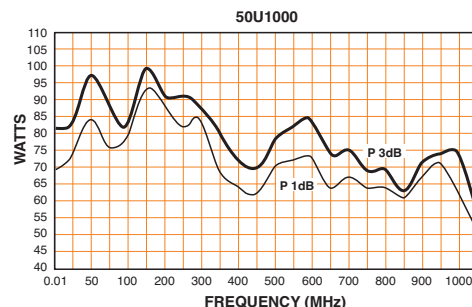
50U1000 10 kHz – 1000 MHz 50 W CW



Rated Output Power	70 W typ., 50 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 70 W / min. 50 W
Power Output @ 1 dB compression	Typ. 60 W / min. 45 W
Flatness	±1.5 dB typ., ±2 dB max.
Frequency Response	10 kHz – 1000 MHz instantaneously
Gain (at max. setting)	47 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	57 dBm typ.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 45 W Minus 20 dBc typical at 50 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, 250 W

Connectors	
RF Input	Type N female
RF Output	Type N female
Remotes Package	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin subminiature D
Cooling	
Forced air (self-contained fans)	
Weight	
With Cabinet	17.7 kg (41 lb.)
Without Cabinet	9.5 kg (23 lb.)
Size (WxHxD)	
With Cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without Cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.

Export classification EAR99

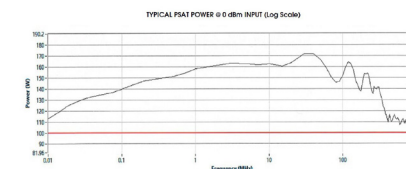


100U1000A 10 kHz – 1000 MHz 100 W CW



Rated Output Power	120 W typ., 100 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 120 W / min. 90 W, 0.01 – 600 MHz: Typ. 100 W / min. 80 W, 600 MHz – 1000 MHz:
Power Output @ 1 dB compression	Typ. 45 W / min. 35 W, 0.01 – .50 MHz: Typ. 90 W / min. 75 W, .50 MHz – 1000 MHz:
Flatness	±1.5 dB typ., ±2 dB max.
Frequency Response	10 kHz – 1000 MHz instantaneously
Gain (small signal)	52 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	60 dBm typ.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 100 W, except for Minus 18 dBc typical at 100 W, from 0.01 – 0.50 MHz and 250 – 400 MHz
Spurious	Minus 73 dBc typ.

Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, 450 W
Connectors	
RF Input	Type N female
RF Output	Type N female
Remotes Package	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin subminiature D
Cooling	
Forced air (self-contained fans)	
Weight	
With Cabinet	26.5 kg (58.5 lb.)
Without Cabinet	15.8 kg (34.75 lb.)
Size (WxHxD)	
With Cabinet	51.0 x 17.0 x 65.3 cm / 20.1 x 6.7 x 25.7 in.
Without Cabinet	48.3 x 13.4 x 65.3 cm / 19.0 x 5.3 x 25.7 in.
Export classification	
EAR99	



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Universal Series Amplifiers

Frequency Range
10 kHz – 1000 MHz

Power Range
1 – 500 W

250U1000A 10 kHz – 1000 MHz 250 W CW



Rated Output Power

0.01 - 700MHz: 280 watts typical, 250 watts minimum
700 - 1000MHz: 225 watts typical, 210 watts minimum

Input for Rated Output

1 milliwatt max.

Power Output @ 3 dB compression

0.01 - 700MHz: 270 watts typical, 240 watts minimum
700 - 1000MHz: 225 watts typical, 190 watts minimum

Power Output @ 1 dB compression

0.01 - 700MHz: 240 watts typical, 200 watts minimum
700 - 1000MHz: 225 watts typical, 175 watts minimum

Flatness

±1.5 dB typ., ±2 dB max.

Frequency Response

10 kHz – 1000 MHz instantaneously

Gain (at max. setting)

54 dB min.

Gain Adjustment (continuous range)

20 dB min.

Input Impedance

50 ohms, VSWR 2:1 max.

Output Impedance

50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point

62 dBm typ.

Noise Figure

8.5 dB typ.

Harmonic Distortion

Minus 20 dBc max. at 200 W
Minus 20 dBc typical at 250 W

Spurious

Minus 73 dBc typ.

Primary Power (selected automatically)

100 – 240 VAC
50/60 Hz, 1,150 W

Connectors

RF Input Type N female
RF Output Type N female

Remotes Package

IEEE-488 24-pin female
RS-232 9-pin subminiature D (female)
Fiber optic ST Conn Tx and Rx RS-232
USB 2 Type B
Ethernet RJ-45
Safety Interlock 15-pin subminiature D

Cooling

Forced air (self-contained fans)

Weight

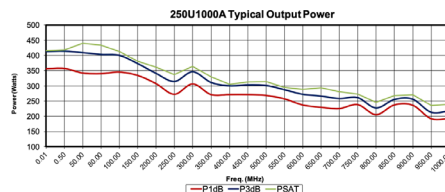
With Cabinet 58.9 kg (130 lb.)
Without Cabinet 46.2 kg (102 lb.)

Size (W x H x D): 19" 6U Rack:

With cabinet: 50.3 x 28 x 74.9 cm (19.8 x 11.2 x 29.5 in)
Without Cabinet: 48.3 x 27.9 x 74.9 cm (19 x 11 x 29.5 in)

Export classification

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Microwave Amplifiers



250S1G6C

AR's microwave amplifiers are denoted as the "S" Series amplifiers, covering the 0.8 - 18 GHz frequency range. These amplifiers operate in frequency bands including; 0.8 - 6 GHz, 1 - 6 GHz, 1 - 2.5 GHz, and 6 to 18 GHz. Each band covers multiple power levels offering the highest available power for a specific frequency range.

In addition to EMC testing, these amplifiers are particularly suited to Telecommunications testing requirements such as power drivers for Digital Predistortion, High Temperature Operating Life and Production Burn-in Systems.



Microwave Amplifiers

Frequency Range
0.8 – 18 GHz

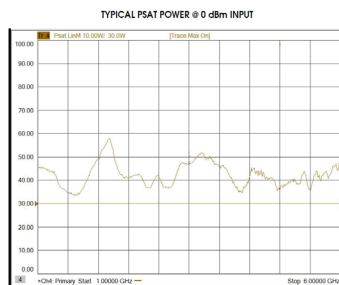
Power Range
15 – 2000 W

30S1G6C 1 – 6 GHz 30 W CW



Rated Power Output	30 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 45 W / min. 35 W
Power Output @ 1 dB compression	Nominal 35 W / min. 25 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1.0 – 6 GHz instantaneously
Gain (Small Signal)	46 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	54 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 30 W
Spurious	Minus 73 dBc typ.

Primary Power (selected automatically)	100 – 240 VAC 47-63 Hz, single phase 400 W max.
Connectors	
RF input	Type N female
RF output	Type N female
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D (female)
RS-232 (fiber optic)	Type ST
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With Cabinet	25.9 kg (57.0 lb.)
Without Cabinet	15.3 kg (33.75 lb.)
Size (WxHxD)	
With Cabinet	51.0 x 17 x 65.3 cm / 20.1 x 6.7 x 25.7 in.
Without Cabinet	48.3 x 13.4 x 65.3 cm / 19 x 5.3 x 25.7 in.
Export Classification:	EAR99

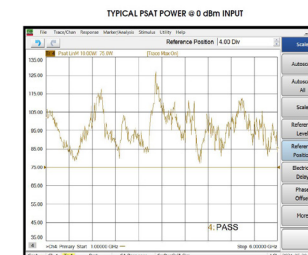


75S1G6C 1.0 – 6.0 GHz 75 W CW



Rated Power Output	75 W min. (1–6 GHz)
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 85 W / min. 65 W
Power Output @ 1 dB compression	Nominal 70 W / min. 50 W
Flatness	±1.0 dB typ. / ±2.5 dB max.
Frequency Response	1–6 GHz instantaneously
Gain (small signal)	51 dB min.
Gain Adjustment (continuous range)	10 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	56 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 75 W for entire band except 2 – 3 GHz
Spurious	Minus 73 dBc typ.

Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, single phase 450 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
Remote Interfaces	
IEEE-488	24-pin
RS-232	9-pin Subminiature D
RS-232 (fiber optic)	Type ST
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With Cabinet	26.5 kg (58.5 lb.)
Without Cabinet	15.8 kg (34.75 lb.)
Size (WxHxD)	
With Cabinet	51.0 x 17.0 x 65.3 cm / 20.1 x 6.7 x 25.7 in.
Without Cabinet	48.3 x 13.4 x 65.3 cm / 19.0 x 5.3 x 25.7 in.
Export Classification:	3A001



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Frequency Range
0.8 – 18 GHz

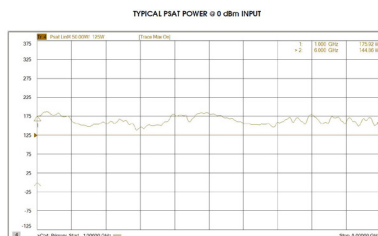
Power Range
15 – 2000 W

125S1G6C 1.0 – 6 GHz 125 W CW



Rated Power Output	125 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 125 W / min. 120 W
Power Output @ 1 dB compression	Nominal 115 W / min. 100 W
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1.0–6 GHz instantaneously
Gain (small signal)	55 dB min.
Gain Adjustment (continuous range)	10 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	58 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion @ 100 W for entire band except 2 – 3 GHz	Minus 18 dBc max at 100 W from 2-3 GHz
Spurious	Minus 73 dBc typ.

Primary Power (selected automatically)	100-240 VAC 47-63 Hz, single phase, 1,150 W max.
Connectors	RF input Type N female on front panel RF output Type N female on front panel
Remote Interfaces	IEEE-488 24-pin RS-232 9-pin Subminiature RS-232 (fiber optic) Type ST USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With Cabinet 29.5 kg (65 lb.) Without Cabinet 22.7 kg (50 lb.)
Size (WxHxD)	With Cabinet 50.3 x 35.5 x 65.3 cm / 19.8 x 14.0 x 25.7 in. Without Cabinet 48.3 x 35.5 x 65.3 cm / 19 x 14.0 x 25.7 in.
Export Classification:	3A001

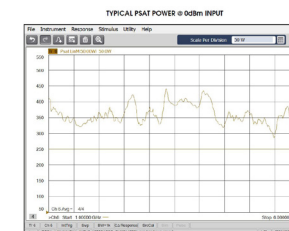


250S1G6C 1 – 6 GHz 250 W CW



Rated Power Output	250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 325 W / min. 225 W
Power Output @ 1 dB compression	Nominal 275 W / min. 200 W
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1.0 – 6 GHz instantaneously
Gain (small signal)	58 dB min.
Gain Adjustment (continuous range)	10 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	60 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Entire Band at 200 W except 2-3 GHz; minus 20 dBc max 2-3 GHz; minus 18 dBc max

Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	100 – 240 VAC 47 – 63 Hz, single phase 1,750 W max.
Connectors	RF input Type N female RF output Type N female
Remote Interfaces	IEEE-488 24-pin RS-232 9-pin Subminiature RS-232 (fiber optic) Type ST USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	With Cabinet 58. kg (129 lb.) Without Cabinet 44.9 kg (99 lb.)
Size (WxHxD)	With Cabinet 50.3 x 47 x 65.3 cm / 19.8 x 18.5 x 25.7 in. Without Cabinet 48.3 x 44.5 x 65.3 cm / 19 x 17.5 x 25.7 in.
Export Classification:	3A001



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Frequency Range
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Power Range
15 – 2000 W

500S1G6C

1 – 6 GHz
500 W CW



Rated Power Output 500 W min.

Input for Rated Output 1 milliwatt max.

Power Output @ 3 dB compression
Nominal 525 W / min. 475 W

Power Output @ 1 dB compression
Nominal 450 W / min. 400 W

Flatness ± 2.0 dB typ. / ± 2.5 dB max.

Frequency Response 1 – 6 GHz instantaneously

Gain (small signal) 61 dB min.

Gain Adjustment (continuous range) 10 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, nominal

Mismatch Tolerance
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 250 W reflected power.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 63 dBm typ.

Harmonic Distortion
Minus 20 dBc max. at 400 W (1 – 6 GHz);
except Minus 18 dBc max. at 400 W (2 – 3 GHz)

Primary Power (selected automatically)
200 – 240 VAC
50/60 Hz, single phase
3,900 W

Connectors
RF Input Type N female on rear panel
RF Output Type 7–16 DIN female on rear panel

Remote Interfaces
IEEE–488 24-pin
RS–232 9-pin Subminiature
RS–232 (fiber optic) Type ST
USB 2 Type B
Ethernet RJ–45

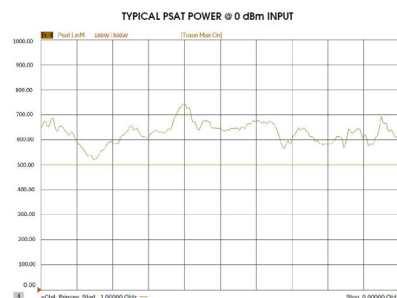
Safety Interlock 15-pin Subminiature D, rear

Cooling Forced air (self-contained fans)

Weight 177 kg (390 lb.)

Size (WxHxD)
57.3 x 136.0 x 67.1 cm / 22.6 x 53.5 x 26.5 in.

Export Classification: 3A001



750S1G6C

1 – 6 GHz
750 W CW



Rated Power Output 750 W min., 1.0 – 4.2 GHz
500 W min., 4.2 – 6.0 GHz

Input for Rated Output 1 milliwatt max.

Power Output @ 3 dB compression
1 – 4.2 GHz; min. 750 W
4.2 – 6 GHz; min. 550 W

Power Output @ 1 dB compression
1 – 4.2 GHz; min. 600 W
4.2 – 6 GHz; min. 450 W

Flatness ± 2.0 dB typ. / ± 2.5 dB max.

Frequency Response 1 – 6 GHz instantaneously

Gain (small signal) 59 dB min.

Gain Adjustment (continuous range) 10 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, nominal

Mismatch Tolerance
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 3:1 may limit output to 200 W reflected power.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 67 dBm typ.

Harmonic Distortion
Minus 20 dBc max. at 600 W (1–6 GHz);
except Minus 18 dBc max. at 600 W (2–3 GHz)

Primary Power (selected automatically)
200 – 240 VAC
50/60 Hz, single phase
5,200 W

Connectors
RF Input Type N female on rear panel
RF Output Type 7–16 DIN female on rear panel

Remote Interfaces
IEEE–488 24-pin
RS–232 9-pin Subminiature
RS–232 (fiber optic) Type ST
USB 2 Type B
Ethernet RJ–45

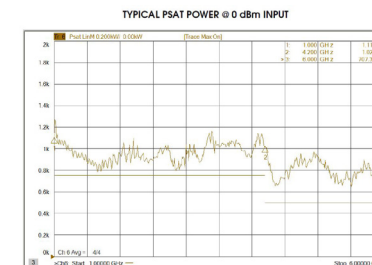
Safety Interlock 15-pin Subminiature D, rear

Cooling Forced air (self-contained fans)

Weight 203 kg (448 lb.)

Size (WxHxD)
57.3 x 136.0 x 67.1 cm / 22.6 x 53.5 x 26.5 in.

Export Classification: 3A001



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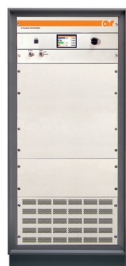
Microwave Amplifiers

Frequency Range
0.8 – 18 GHz

Power Range
15 – 2000 W

1000S1G6C

1 – 6 GHz
1,000 W CW



Rated Power Output	1,000 W min., 1.0 - 5.0 GHz; 700 W min., 5.0 - 6.0 GHz
Input for Rated Output	1 milliwatt max.
Power Output	@ 3 dB compression 1 – 5 GHz; Nominal 1,200 W / min. 950 W 5 – 6 GHz; Nominal 800 W / min. 650 W
Power Output	@ 1 dB compression 1 – 5 GHz; Nominal 950 W / min. 800 W 5 – 6 GHz; Nominal 750 W / min. 600 W
Flatness	±2.0 dB typ. / ±2.5 dB max.
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	60 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 250 W reflected power.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point

68 dBm typ.

Harmonic Distortion

Minus 20 dBc max. at 800 W (1–6 GHz);
Except for Minus 18 dBc max. at 800 W (2–3 GHz)

Primary Power

Low Voltage Version 200 – 240 VAC
High Voltage Version 380 – 415 VAC
47–63 Hz, 3 phase
8,500 W

Connectors

RF Input Type N female on rear panel
RF Output Type 7–16 DIN female on rear panel

Remote Interfaces

IEEE–488 24–pin
RS–232 9–pin Subminiature
RS–232 (fiber optic) Type ST
USB 2 Type B
Ethernet RJ–45

Safety Interlock

15–pin Subminiature D, rear

Cooling

Forced air (self–contained fans)

Weight

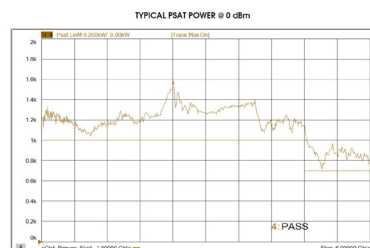
273 kg (600 lb.)

Size (WxHxD)

57.3 x 136 x 95.5 cm / 22.6 x 53.5 x 37.6 in.

Export Classification:

3A001



AR-G030

0.8 - 6 GHz
30 W CW



Rated Power Output	30 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	35 W
P1dB (min.)	30 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	45 dB min.
Gain Adjustment (continuous range)	0–30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

AM, FM, PM, ODFM

Third Order Intercept Point

10 dB > P1dB

Harmonic Distortion

–18 dBc

Primary Power

90 to 264 VAC

Frequency

47 - 63

Power

0.35 kVA

Connectors

RF Input Type N female
RF Output Type N female
RF Sample Port Connectors Type N female

Remote (COM) Interfaces

GPIO, RS232, Ethernet & USB

Safety Interlock

Via rear panel mounted BNC-female

Cooling

Forced air (self–contained fans)

Weight

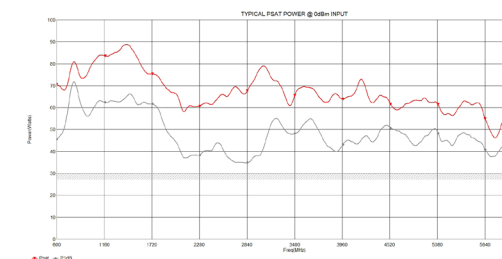
15 kg (33 lb.)

Size (WxHxD)

19 in, 4U, 615 mm

Export Classification:

EAR99



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Microwave Amplifiers

Frequency Range
0.8 – 18 GHz

Power Range
15 – 2000 W

AR-G060 0.8 - 6 GHz 60 W CW



Rated Power Output	60 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	60 W
P1dB (min.)	50 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	47 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

AM, FM, PM, ODFM

Third Order Intercept Point	10 dB > P1dB
-----------------------------	--------------

Harmonic Distortion	-18 dBc
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Primary Power	90 to 264 VAC
Frequency	47 - 63
Power	0.65 kVA

Connectors

RF Input	Type N female
RF Output	Type N female
RF Sample Port Connectors	Type N female

Remote (COM) Interfaces

GPIO, RS232, Ethernet & USB

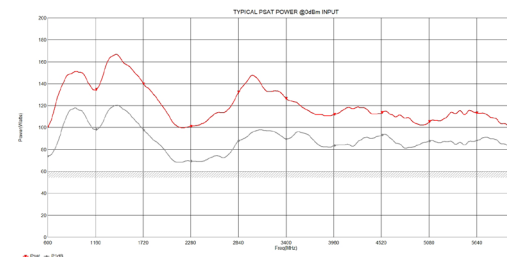
Safety Interlock	Via rear panel mounted BNC-female
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Cooling	Forced air (self-contained fans)
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Weight	20 kg (44 lb.)
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Size (WxHxD)	19 in, 4U, 615 mm
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Export Classification:	3A001
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AR-G120 0.8 - 6 GHz 120 W CW



Rated Power Output	120 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	125 W
P1dB (min.)	100 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	47 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

AM, FM, PM, ODFM

Third Order Intercept Point	10 dB > P1dB
-----------------------------	--------------

Harmonic Distortion	-18 dBc
---------------------	---------

Primary Power	90 to 264 VAC
Frequency	47 - 63
Power	1.5 kVA

Connectors

RF Input	Type N female
RF Output	Type N female
RF Sample Port Connectors	Type N female

Remote (COM) Interfaces

GPIO, RS232, Ethernet & USB

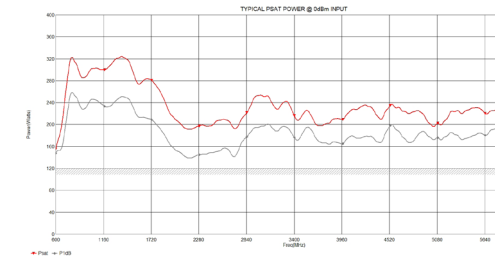
Safety Interlock	Via rear panel mounted BNC-female
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Cooling	Forced air (self-contained fans)
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Weight	28 kg (61 lb.)
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Size (WxHxD)	19 in, 4U, 615 mm
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Export Classification:	3A001
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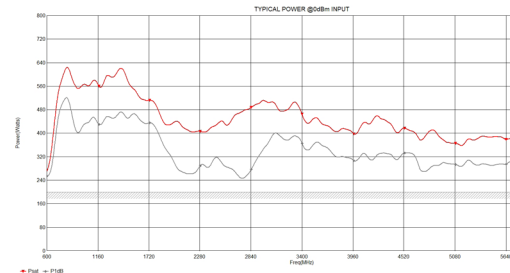
Power Range
15 – 2000 W

AR-G200 0.8 - 6 GHz 200 W CW



Rated Power Output	200 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	250 W
P1dB (min.)	200 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	53 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	AM, FM, PM, ODFM
Third Order Intercept Point	10 dB > P1dB
Harmonic Distortion	-18 dBc
Primary Power	90 to 264 VAC
Frequency	47 - 63
Power	2.5 kVA
Connectors	Type N female
RF Input	Type N female
RF Output	Type N female
RF Sample Port Connectors	Type N female

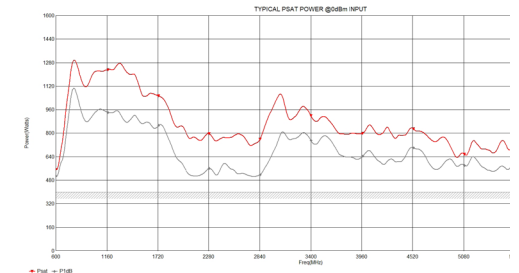
Remote (COM) Interfaces	GPIO, RS232, Ethernet & USB
Safety Interlock	Via rear panel mounted BNC-female
Cooling	Forced air (self-contained fans)
Weight	50 kg (110 lb.)
Size (WxHxD)	19 in, 7U, 615 mm
Export Classification:	3A001



AR-G400 0.8 - 6 GHz 400 W CW

Rated Power Output	400 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	500 W
P1dB (min.)	400 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	56 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	AM, FM, PM, ODFM
Third Order Intercept Point	10 dB > P1dB
Harmonic Distortion	-18 dBc
Primary Power	180 to 265 VAC
Single Phase	208 to 240 VAC
Three Phase	380 to 415 VAC
Low Voltage Version	47 - 63 Hz
High Voltage Version	5.5 kVA
Power	
Frequency	

Connectors	Type N female
RF Input	Type 7/16 female
RF Output	Type N female
RF Sample Port Connectors	Type N female
Remote (COM) Interfaces	GPIO, RS232, Ethernet & USB
Safety Interlock	Via rear panel mounted BNC-female
Cooling	Forced air (self-contained fans)
Weight	160 kg (352 lb.)
Size (WxHxD)	See online spec sheet for size variations
Export Classification:	3A001



Microwave Amplifiers

Frequency Range
0.8 – 18 GHz

Power Range
15 – 2000 W

2000S1G2z8 1 – 2.8 GHz 2000 W CW



Rated Power Output	2,000 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 2,400 W / min. 1,800 W
Power Output @ 1 dB compression	Nominal 1,800 W / min. 1,500 W
Flatness	±1.5 dB typ. / ±2.0 dB max.
Frequency Response	1 – 2.8 GHz instantaneously
Gain (small signal)	67 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 1,000 W reflected power.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 70 dBm typ.

Harmonic Distortion
Minus 20 dBc max. at 1,500 W

Primary Power
Low Voltage Version 200 – 240 VAC
High Voltage Version 380 – 415 VAC
47 – 63 Hz
15,000 W

Connectors
RF Input Type N female on rear panel
RF Output Type 1-5/8 EIA female on rear panel

Remote Interfaces
IEEE-488 24-pin
RS-232 9-pin Subminiature
RS-232 (fiber optic) Type ST
USB 2 Type B
Ethernet RJ-45

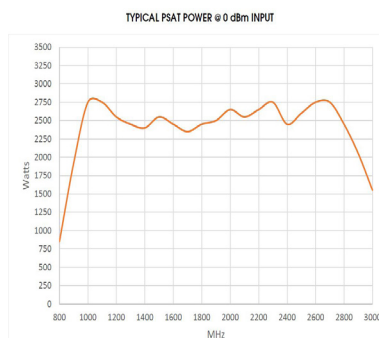
Safety Interlock 15-pin Subminiature D, rear

Cooling Forced air (self-contained fans)

Weight 363 kg (800 lb.)

Size (WxHxD) 57.3 x 193.8 x 103.1 cm / 22.6 x 76.3 x 40.6 in.

Export Classification: 3A001



125S1G2z5 1 – 2.5 GHz 125 W CW



Rated Power Output	140 W typ., 125 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 130 W, min. 115 W
Power Output @ 1 dB compression	Typ. 110 W, min. 90 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1 – 2.5 GHz instantaneously
Gain (at max. setting)	54 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 60 dBm typ.

Noise Figure 12 dB max.; 10 dB typ.

Harmonic Distortion Minus 20 dBc max. at 100 W
Minus 30 dBc typ. at 100 W

Spurious Minus 73 dBc typ.

Primary Power (selected automatically) 100 – 240 VAC
50/60 Hz
650 W

Connectors
RF input Type N female
RF output Type N female

Remote Interfaces
IEEE-488 24-pin female
RS-232 9-pin Subminiature D (female)
Fiber optic: ST Conn Tx and Rx RS-232
USB 2 Type B
Ethernet RJ-45
Safety Interlock 15-pin Subminiature D

Cooling Forced air (self-contained fans)

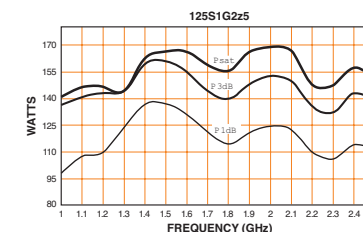
Acoustical Noise @ 1 Meter Front: 60 dBA
Side: 59 dBA
Rear: 66 dBA

Weight
With Cabinet 36.7 kg (81 lb.)
Without Cabinet 25.4 kg (56 lb.)

Size (WxHxD)
With cabinet 50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in.
Without Cabinet 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.

Environmental Storage Temperature –20°C/+50°C

Export Classification: EAR99



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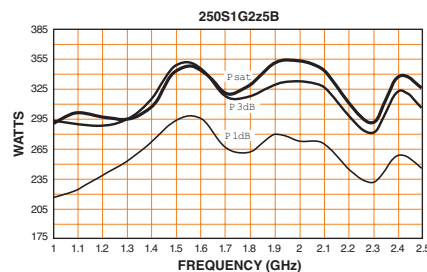
Power Range
15 – 2000 W

250S1G2z5B 1 – 2.5 GHz 250 W CW



Rated Power Output	300 W typ., 250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 275 W, min. 250 W
Power Output @ 1 dB compression	Typ. 225 W, min. 200 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1 – 2.5 GHz instantaneously
Gain (at max. setting)	56 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	62 dBm typ.
Noise Figure	12 dB max.; 10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 200 W Minus 30 dBc typ. at 200 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, single phase 1,200 W max.

Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D (female)
Fiber optic:	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With Cabinet	42.6 kg (94 lb.)
Without Cabinet	31.3 kg (69 lb.)
Size (WxHxD)	
With cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in.
Without Cabinet	48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
Export Classification:	EAR99

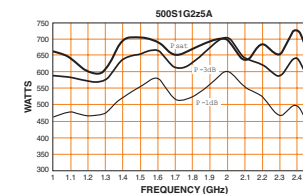


500S1G2z5A 1 – 2.5 GHz 500 W CW



Rated Power Output	550 W nominal, 500 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 550 W / min. 450 W
Power Output @ 1 dB compression	Nominal 400 W / min. 350 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1 – 2.5 GHz instantaneously
Gain (small signal)	57 dB min.
Gain Adjustment (continuous range)	20 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	66 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 350 W Minus 20 dBc typ. at 500 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz 2,250 W max.

Connectors	
RF input	Type N female
RF output	Type 7-16 DIN female
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D (female)
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Acoustical Noise @ 1 Meter	Front: 56 dBA type
Weight	
With Cabinet	64.9 kg (143 lb.)
Without Cabinet	50.3 kg (111 lb.)
Size (WxHxD)	
With cabinet:	50.3 x 37.3 x 74.9 cm (19.8 x 14.7 x 29.5 in)
Without Cabinet:	48.3 x 35.5 x 74.9 cm (19 x 14 x 29.5 in)
Environmental	Storage Temperature –20°C/+50°C
Export Classification:	EAR99



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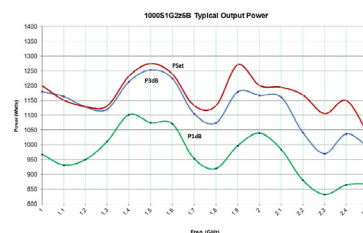
1000S1G2z5B

1 – 2.5 GHz
1000 W CW



Rated Power Output	1000 W min.
Input for Rated Output (0 dBm)	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 1000 W / min. 925 W
Power Output @ 1 dB compression	Nominal 850 W / min. 725 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1 – 2.5 GHz instantaneously
Gain (at max. setting)	60 dB min.
Gain Adjustment (continuous range)	20 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	66 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 800 W Minus 20 dBc typ. at 1000 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automatically)	200 – 240 VAC 50/60 Hz, single phase 3800 W

Connectors	RF input Type N female on rear panel RF output Type 7/8 EIA female on rear panel
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) RS-232 (fiber optic) Type ST USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Acoustical Noise @ 1 Meter	Front: 44 dBA Side: 68 dBA Rear: 72 dBA
Weight	148 kg (325 lbs)
Size (WxHxD)	56.1 x 97.8 x 82.5 cm / 22.1 x 38.5 x 32.5 in.
Environmental	Storage Temperature -20°C/+50°C
Export Classification:	EAR99



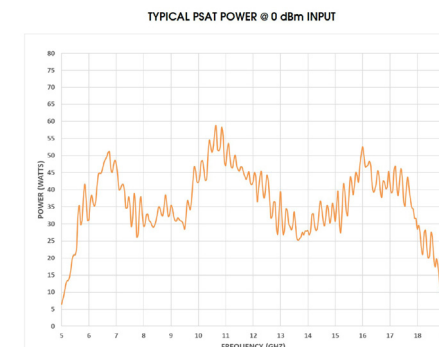
20S6G18C

6 – 18 GHz
20 W CW



Rated Power Output	20 W min.
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 25 W / min. 18 W
Power Output @ 1 dB compression	Nominal 22 W / min. 15 W
Power Gain Flatness (0 dBm IN)	±2 dB typ. / ±2.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (small signal)	45 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	49 dBm typ.
Harmonic Distortion	Minus 20 dBc max. at 20 W
Primary Power (selected automatically)	100 – 240 VAC 50/60 Hz, single phase 600 W max.
Connectors	RF input Precision N female on front panel RF output Precision N female on front panel

Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) RS-232 (fiber optic) Type ST USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air
Weight	w/cabinet: 29.5 (65 lb.) w/o cabinet: 20.4 kg (45 lb.)
Size (WxHxD)	w/cabinet: 50.2 x 20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in.) w/o cabinet: 48.3 x 18.8 x 63.8 cm (19 x 7 x 25.1 in.)
Export Classification:	3A001



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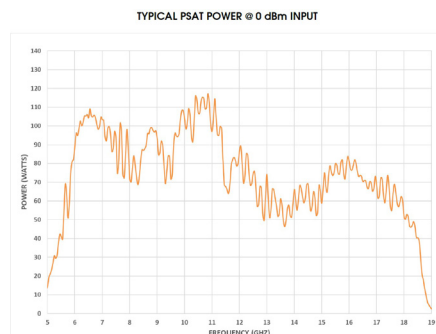
Power Range
15 – 2000 W

40S6G18C 6 – 18 GHz 40 W CW



Rated Power Output	40 W min.
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 55 W / min. 35 W
Power Output @ 1 dB compression	Nominal 45 W / min. 25 W
Power Gain Flatness (0 dBm IN)	±2 dB typ. / ±3.0 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (small gain)	51 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	52 dBm typ.
Harmonic Distortion	Minus 20 dBc max. at 40 W
Primary Power (selected automatically)	100 - 240 VAC 50/60 Hz, single phase 700 W max.
Connectors	RF input RF output
	Precision N female on front panel Precision N female on front panel

Remote Interfaces	IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24-pin female 9-pin Subminiature D (female) Type ST Type B RJ-45
Safety Interlock	15-pin Subminiature D	
Cooling	Forced air	
Weight	w/cabinet: 31.75 (70 lb.) w/o cabinet: 22.7kg (50 lb.)	
Size (WxHxD)	w/cabinet: 50.2 x 20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in.) w/o cabinet: 48.3 x 18.8 x 63.8 cm (19 x 7 x 25.1 in.)	
Export Classification:	3A001	

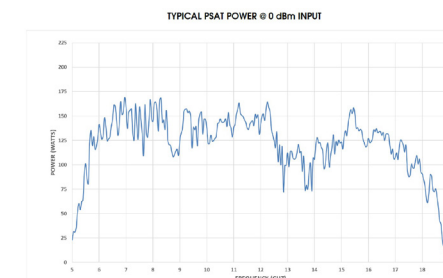


75S6G18C 6 – 18 GHz 75 W CW



Rated Power Output	75 W min.
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 110 W / min. 75 W, 6.0 - 12.0 GHz Nominal 100 W / min. 65 W, 12.0 - 18.0 GHz
Power Output @ 1 dB compression	Nominal 80 W / min. 60 W, 6.0 - 12.0 GHz Nominal 70 W / min. 50 W, 12.0 - 18.0 GHz
Power Gain Flatness (0 dBm IN)	±2.5 dB typ. / ±3.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (small signal)	50 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.
Modulation Capability	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	54 dBm typ.
Harmonic Distortion	Minus 20 dBc max. at 75 W (6.0 – 12.0 GHz) Minus 20 dBc max. at 65 W (12.0 – 18.0 GHz)
Primary Power (selected automatically)	100 - 240 VAC 50/60 Hz, single phase 1200 W max.

Connectors	RF input RF output	Precision N female on front panel Precision N female on front panel
Remote Interfaces	IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24-pin female 9-pin Subminiature D (female) Type ST Type B RJ-45
Safety Interlock	15-pin Subminiature D	
Cooling	Forced air	
Weight	w/cabinet: 35 (77 lb.) w/o cabinet: 25.9 kg (57 lb.)	
Size (WxHxD)	w/cabinet: 50.2 x 20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in.) w/o cabinet: 48.3 x 18.8 x 63.8 cm (19 x 7 x 25.1 in.)	
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125S6G18C 6 – 18 GHz 125 W CW



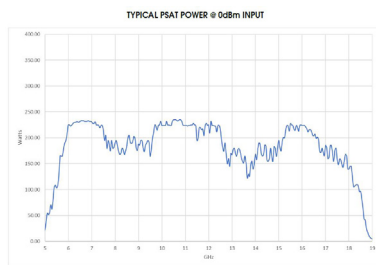
Rated Power Output	125 W min. (6.0 - 12.0 GHz) 100 W min. (12.0 - 18.0 GHz)
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 175 W / min. 125 W (6.0 - 12.0 GHz) Nominal 150 W / min. 100 W (12.0 - 18.0 GHz)
Power Output @ 1 dB compression	Nominal 125 W / min. 100 W (6.0 - 12.0 GHz) Nominal 125 W / min. 75 W (12.0 - 18.0 GHz)
Power Gain Flatness (0 dBm IN)	±2.5 dB typ. / ±3.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (Small Signal)	52 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 65 watts reflected power.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 56 dBm typ.

Harmonic Distortion @ 125 W, 6.0 - 12.0 GHz, @ 100 W, 12.0 - 18.0 GHz
Minus 20 dBc max

Primary Power (selected automatically)	200 - 240 VAC 50/60 Hz, single phase 2750 W max.
Connectors	RF input Precision N female RF output WRD650 (50 Ω), rear
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) RS-232 (fiber optic) Type ST USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air
Weight	w/cabinet: 84.4 (186 lb.) w/o cabinet: 55.3kg (122 lb.)
Size (WxHxD)	w/cabinet: 57.4 x 97.9 x 95.5 cm (22.6 x 38.5 x 37.6 in.) w/o cabinet: 48.3 x 53.3 x 95.5 cm (19.0 x 21.0 x 37.6 in.)
Export Classification:	3A001



250S6G18C 6 – 18 GHz 250 W CW



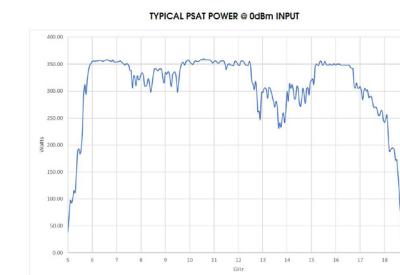
Rated Power Output	250 W min. (6.0 - 12.0 GHz) 200 W min. (12.0 - 18.0 GHz)
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 300 W / min. 250 W, 6.0 - 12.0 GHz Nominal 250 W / min. 200 W, 12.0 - 18.0 GHz
Power Output @ 1 dB compression	Nominal 250 W / min. 200 W, 6.0 - 12.0 GHz Nominal 200 W / min. 150 W, 12.0 - 18.0 GHz
Power Gain Flatness (0 dBm IN)	±2 dB typ. / ±3.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (Small Signal)	55 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 125 watts reflected power.

Modulation Capability
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 59 dBm typ.

Harmonic Distortion
Minus 20 dBc max. at 250 W (6.0 - 12.0 GHz),
Minus 20 dBc max. at 200 W (12.0 - 18.0 GHz)

Primary Power (selected automatically)	200 - 240 VAC 50/60 Hz, single phase 4500 W max.
Connectors	RF input Precision N female on front panel RF output WRD650 (50 Ω), rear
Remote Interfaces	IEEE-488 24-pin female RS-232 9-pin Subminiature D (female) RS-232 (fiber optic) Type ST USB 2 Type B Ethernet RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air
Weight	w/cabinet: 117 (258 lb.) w/o cabinet: 88 kg (194 lb.)
Size (WxHxD)	w/cabinet: 57.4 x 97.9 x 95.5 cm (22.6 x 38.5 x 37.6 in.) w/o cabinet: 48.3 x 53.3 x 95.5 cm (19.0 x 21.0 x 37.6 in.)
Export Classification:	3A001



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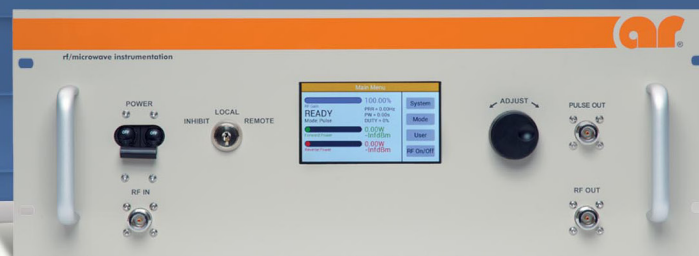
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Solid State Pulse Amplifiers

For automotive and military EMC radiated immunity susceptibility testing, as well as radar and communication applications, Solid State Pulsed Amplifiers offer high-power RF levels that rival those of TWTs. However, they offer higher reliability, better mismatch tolerance, much better harmonic distortion, and better MTBF (Mean Time Between Failure) than TWTs.



1300SP1G2



Solid State Pulse

Frequency Range
1 - 4 GHz

Power Range
1 - 18 kW

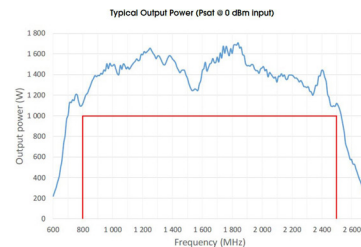
1000SP0z8G2z5

0.8 - 2.5 GHz
1000 W Pulse



Rated Power Output	1000 W min.
Input for Rated Output	1.0 milliwatt maximum
Flatness	±2.5 dB maximum
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (small signal)	60 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2.0:1 max
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance Alarm and protection above 250 W reflected power. Load VSWR > 3:1 at 1 kW; > 6:1 at 500 W.
Pulse Capability	
Pulse Width	0.1 – 100 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	5% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	≤ 12 dB max.
Harmonic Distortion	≤ -15 dBc max. up to 1.4 GHz @ RF power ≥ 800 W ≤ -20 dBc max. up to 2.5 GHz

Spurious	-60 dBc max.
Primary Power	100 – 264 VAC 50 – 60 Hz, single phase 700 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF sample reflected	Type N female, forward and
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin on rear panel
Ethernet	RJ-45 on rear panel
RS-232	9-pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	43 kg (95 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm, 19.8 x 7.8 x 28.1 in
Export Classification	3A999.d



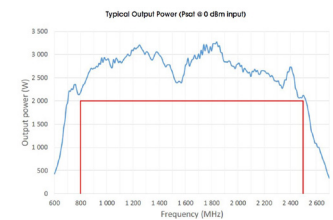
2000SP0z8G2z5

0.8 - 2.5 GHz
2000 W Pulse



Rated Power Output	2000 W min.
Input for Rated Output	0 dBm max.
Flatness	± 1.5 dB typ.; ± 2.5 dB max.
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (Small Signal))	63 dB min.
Gain Adjustment	20 dB min (4096 step)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 500 W reflected power (i.e., load VSWR > 3:1 @ 2 kW; VSWR > 6:1 @ 1 kW)
Pulse Capability	
Pulse Width	0.1 – 100 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	5% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	≤ 12 dB max.
Harmonic Distortion	≤ -15 dBc max. up to 1.4 GHz @ RF power ≥ 1600 W ≤ -20 dBc max. up to 2.5 GHz

Spurious	-60 dBc max.
Primary Power	100 – 264 VAC 50 – 60 Hz, single phase 1000 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output	forward and reflected sample ports Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin on rear panel
Ethernet	RJ-45 on rear panel
RS-232	9-pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	45 kg (99 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in
Export Classification	3A999.d



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Frequency Range
1 - 4 GHz

Power Range
1 - 18 kW

4000SP0z8G2z5

0.8 - 2.5 GHz

4000 W Pulse



Rated Power Output	4000 W min.
Input for Rated Output	0 dBm max.
Flatness	± 1.5 dB typ.; ± 2.5 dB max.
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (small signal)	66 dB min.
Gain Adjustment	20 dB min (4096 step)
Input Impedance	50 ohms, VSWR ≤ 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	
Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1 kW reflected power (i.e. load VSWR > 3:1 @ 4 kW; VSWR > 6:1 @ 2 kW)	
Pulse Capability	
Pulse Width	0.1 – 100 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	5% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	≤ 12 dB max.
Harmonic Distortion	
≤ -15 dBc max. up to 1.4 GHz @ RF power ≥ 3200 W ≤ -20 dBc max. up to 2.5 GHz	
Spurious	-60 dBc max.

Primary Power	100 – 264 VAC 50 – 60 Hz 1800 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type 7–16 DIN female on front panel forward and reflected sample ports
RF output	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45 on rear panel
RS-232	9-pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	86 kg (190 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A999.d

8000SP0z8G2z5

0.8 - 2.5 GHz

8000 W Pulse



Rated Power Output	8000 W min.
Input for Rated Output	0 dBm max.
Flatness	± 1.5 dB typ.; ± 2.5 dB max.
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (small signal)	69 dB min.
Gain Adjustment	20 dB min (4096 step)
Input Impedance	50 ohms, VSWR ≤ 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	
Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 2 kW reflected power (i.e., load VSWR > 3:1 @ 8 kW; VSWR > 6:1 @ 4 kW)	
Pulse Capability	
Pulse Width	0.1 – 100 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	5% max.
RF Rise and Fall	30 ns max. (10%–90%)
Delay	1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	≤ 12 dB max.
Harmonic Distortion	
≤ -15 dBc max. up to 1.4 GHz @ RF power ≥ 6400 W ≤ -20 dBc max. up to 2.5 GHz	

Spurious	-60 dBc max.
Primary Power	100 – 264 VAC 50 – 60 Hz, single phase 2500 W max.
Connectors	
RF input	Type N female on rear panel
RF output	Type 7–16 DIN female on rear panel forward and reflected sample ports
RF output	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45 on rear panel
RS-232	9-pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	137 kg (301 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A999.d



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Power Range
1 - 18 kW

1300SP1G2

1 – 2 GHz

1300 W Pulse



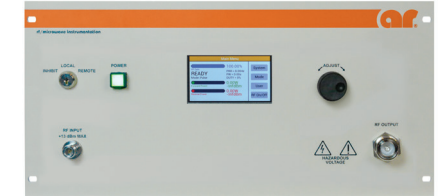
Rated Power Output	1,300 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1 – 2 GHz instantaneously
Gain (Small Signal)	61.2 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 325 W reflected power (load VSWR > 3:1 @ 1.3 kW; >6:1 @ 650 W).
Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	<12 dB max.
Harmonic Distortion	–15 dBc max. up to 1.2 GHz @800W; –20 dBc max. from 1.2 GHz–2 GHz

Spurious	Minus 60 dBc max.
Primary Power	100 – 264 VAC 50/60 Hz, single phase 500 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output forward and reflected sample ports	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE–488	24–pin
Ethernet	RJ–45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in.
Export Classification	3A999.d

2000SP1G2

1 – 2 GHz

2000 W Pulse



Rated Power Output	2000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1 – 2 GHz instantaneously
Gain (Small Signal)	63 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 500 W reflected power (load VSWR > 3:1 @ 2 kW; >6:1 @ 1 kW).
Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	<12 dB max.
Harmonic Distortion	–15 dBc max. up to 1.2 GHz (@ ≥1300 W); –20 dBc max. up to – 2 GHz
Spurious	Minus 60 dBc max.

Primary Power	100 – 264 VAC 50/60 Hz, single phase 800 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output forward and reflected sample ports	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE–488	24–pin
Ethernet	RJ–45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4cm / 19.8 x 7.8 x 28.1 in.
Export Classification	3A999.d



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Frequency Range
1 - 4 GHz

Power Range
1 - 18 kW

8000SP1G2 1 - 2 GHz 8000 W Pulse



Rated Power Output	8000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1.5 dB typ./ ±2.5 dB max.
Frequency Response	1 - 2 GHz instantaneously
Gain (Small Signal)	69 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 2 kW reflected power (load VSWR > 3:1 @ 8 kW; >6:1 @ 4 kW)
Pulse Capability	
Pulse Width	0.1 - 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% - 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	12 dB max.
Harmonic Distortion	Minus 15 dBc max., up to 1.2 GHz @ ≥5000 W Minus 20dBc max., up to 2 GHz
Spurious	Minus 60 dBc max.

Primary Power	100 - 264 VAC 50/60 Hz, 2400 W max.
Connectors	RF input Type N female on front panel RF output Type 7-16 DIN female on rear panel RF output forward and reflected sample ports Type N female on rear panel Pulse input Type BNC female on rear panel
Remote Interfaces	IEEE-488 24-pin Ethernet RJ-45 RS-232 9-pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	122 kg (268 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in.
Export Classification	3A999.d

4000SP1z2G1z4 1.2 - 1.4 GHz 4000 W Pulse



Rated Power Output	4000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ./ ±2 dB max.
Frequency Response	1.2 - 1.4 GHz instantaneously
Gain (Small Signal)	66 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1 kW reflected power (load VSWR > 3:1 @ 4 kW; >6:1 @ 2 kW)
Pulse Capability	
Pulse Width	0.1 - 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% - 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	8 dB max.
Harmonic Distortion	Minus 30 dBc max. @ rated power
Spurious	Minus 60 dBc max.

Primary Power	100 - 264 VAC 50/60 Hz, single phase 1100 W max.
Connectors	RF input Type N female on front panel RF output Type 7-16 DIN female on front panel RF output forward and reflected sample ports Type N female on rear panel Pulse input Type BNC female on rear panel
Remote Interfaces	IEEE-488 24-pin Ethernet RJ-45 RS-232 9-pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in.
Export Classification	3A999.d



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Frequency Range
1 – 4 GHz

Power Range
1 - 18 kW

6000SP1z2G1z4 1.2 – 1.4 GHz 6000 W Pulse



Rated Power Output	6000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	1.2 – 1.4 GHz instantaneously
Gain (Small Signal)	67.8 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1.5 kW reflected power (load VSWR > 3:1 @ 6 kW; >6:1 @ 3 kW).
Pulse Capability	
Pulse Width	0.1 – 50 microsecondss
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	≤1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	8 dB max.
Harmonic Distortion	Minus 30 dBc max. at rated power
Spurious	Minus 60 dBc max.

Primary Power	100 – 264 VAC 50/60 Hz, single phase 1400 W max.
Connectors	
RF input	Type N female on rear panel
RF output	Type 7–16 DIN female on rear panel
RF output forward and reflected sample ports	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE–488	24–pin
Ethernet	RJ–45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in.
Export Classification	3A999

1000SP2G4 2 – 4 GHz 1000 W Pulse



Rated Power Output	1000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB at rated power
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	60 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 250 W reflected power (load VSWR > 3:1 @ 1 kW; >6:1 @ 500 W)
Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max (10% – 90%)
Delay	≤1 μs from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	15 dB max.
Harmonic Distortion	≤–15dBc up to 2.3GHz@700 W; ≤–20dBc up to 4 GHz
Spurious	Minus 60 dBc max.

Primary Power	100 – 264 VAC 50/60 Hz, single phase 700 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output forward and reflected sample ports	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE–488	24–pin
Ethernet	RJ–45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight	38 kg (83 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in.
Export Classification	3A999.D



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Frequency Range
1 – 4 GHz

Power Range
1 - 18 kW

2000SP2G4 2 – 4 GHz 2000 W Pulse



Rated Power Output	2000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	± 1.5 dB typ. / ± 2.5 dB at rated power
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	63 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 500 W reflected power (load VSWR > 3:1 @ 2 kW; >6:1 @ 1 kW)
Pulse Capability	
Pulse Width	.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 μ s max. (10% – 90%)
Delay	1 μ s max. from pulse input to RF 90%
Pulse Width Distortion	± 25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	12 dB typ.
Harmonic Distortion	–15 dBc max up to 2.3 GHz @ ≥ 1300 W; –20dBc max up to 4 GHz
Spurious	Minus 60 dBc typ.

Primary Power	100 – 264 VAC 50/60 Hz 800 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output forward and reflected sample ports	
Pulse input	Type N female on rear panel Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in.
Export Classification	3A999.d

5000SP2G4 2 – 4 GHz 5000 W Pulse



Rated Power Output	5000 W min.
Input for Rated Output	1 milliwatt max.
Pulse Droop:	–0.8dB max @5000W for a 50 μ s pulse
Flatness	± 1.5 dB typical; ± 2.5 dB maximum
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	67 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 maximum
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Alarm and protection above 1.25 kW reflected power (load VSWR > 3:1 @ 5 kW; >6:1 @ 2.5 kW).
Pulse Capability	
Pulse Width	0.1–50 microseconds
Pulse Rate (PRF)	50 kHz maximum
Duty Cycle	6% maximum.
RF Rise and Fall	30 ns max (10% to 90%).
Delay	1 μ s maximum from pulse input to RF 90%
Pulse Width Distortion	± 25 ns maximum (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB minimum
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	15 dB typ.

Harmonic Distortion	–15dBc up to 2.3GHz@3200W; –20dBc up to 4 GHz
Spurious	Minus 60 dBc max.
Primary Power	100–264 VAC 50/60 Hz 2000 watts maximum
Connectors	
RF input	Type N female on front panel
RF output	Type 7–16 DIN female on rear panel
RF output forward and reflected sample ports	
Pulse input	Type N female on rear panel Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24 pin
RS-232	9 pin subminiature D
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	98 kg (215 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in.
Export Classification	3A999.d



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Solid State Pulse

Frequency Range
1 – 4 GHz

Power Range
1 - 18 kW

7000SP2G4 2 – 4 GHz 7000 W Pulse



Rated Power Output	7000 W min.
Input for Rated Output	0 dBm max.
Pulse Droop:	-0.8dB max @7000W for a 50µs pulse
Flatness	±1.5 dB typical; ±2.5 dB maximum
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	68.5 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 maximum
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1.75 kW reflected power (load VSWR > 3:1 @ 7 kW; >6:1 @ 3.5 kW).
Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz maximum
Duty Cycle	6% maximum.
RF Rise and Fall	30 ns max (10% – 90%).
Delay	1µs maximum from pulse input to RF 90%
Pulse Width Distortion	±25 ns maximum (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB minimum
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	15 dB typ.

Harmonic Distortion	-15dBc up to 2.3 GHz@4500 W; -20 dBc up to 4 GHz
Spurious	≤ - 60 dBc max.
Primary Power	100 – 264 VAC, 50 – 60 Hz, 2800 watts maximum
Connectors	
RF Input	Type N female
RF Output	Type 7-16
DIN RF Sample	output forward and reflected sample ports
	Type N female, rear
PULSE INPUT	Type BNC female, rear
Remote Interfaces	
IEEE-488	24 pin
RS-232	9 pin subminiature D
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	114 kg / 250 lbs
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A999.d

10000SP2G4 2 – 4 GHz 10000 W Pulse



Rated Power Output	10000 W
Input for Rated Output	1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	70 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 2.5 kW reflected power (load VSWR > 3:1 @ 10 kW; >6:1 @ 5 kW).
Pulse Capability	
Pulse Width	1 µs–50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	≤5% @ rated power, ≤6% @ 8kW maximum
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	≤ 1µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	15 dB typ.
Harmonic Distortion	≤-15 dBc up to 2.3 GHz @ ≥6,400 W; ≤-20 dBc up to 4 GHz

Spurious	Minus 60 dBc max.
Primary Power	100 – 264 VAC 50/60 Hz, 3600 W max.
Connectors	
RF input	Type N female on rear panel
RF output	Type 7-16 DIN female on rear panel
RF output forward and reflected sample ports	
Pulse input	Type N female on rear panel Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	137 kg (301 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in.
Export Classification	3A001



Solid State Pulse

Frequency Range
1 - 4 GHz

Power Range
1 - 18 kW

4000SP2z7G3z1

2.7 – 3.1 GHz

4000 W Pulse



Rated Power Output	4000 W min.
Input for Rated Output	0 dBm max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	2.7 – 3.1 GHz instantaneously
Gain (Small Signal)	66 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1 kW reflected power (load VSWR > 3:1 @ 4 kW; >6:1 @ 2 kW).
Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	≤1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Noise Figure	8 dB max.
Harmonic Distortion @ rated power	minus 30 dBc max.
Spurious	Minus 60 dBc max.

Primary Power	100 – 264 VAC 50/60 Hz, single phase 2000 W max.
Connectors	
RF input	Type N female on rear panel
RF output	Type 7–16 DIN female on rear panel
RF output forward and reflected sample ports	
Pulse input	Type N female on rear panel Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	43 kg / 95 lbs
Size (WxHxD)	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in
Export Classification	3A999.d

8000SP2z7G3z1

2.7 – 3.1 GHz

8000 W Pulse



Rated Power Output	8000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	2.7 – 3.1 GHz instantaneously
Gain (small signal)	69 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 2 kW reflected power (load VSWR > 3:1 @ 8 kW; >6:1 @ 4 kW).
Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	≤1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Noise Figure	8 dB max.
Harmonic Distortion	minus 30 dBc max.
Spurious	Minus 60 dBc max.

Primary Power	100 – 264 VAC 50/60 Hz, 3800 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type 7–16 DIN female on rear panel
RF output forward and reflected sample ports	
Pulse input	Type N female on rear panel Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	94 kg (207 lb.)
Size (WxHxD)	50.3 x 50.8 x 79.5 cm / 19.8 x 20 x 31.3 in.
Export Classification	3A999.d



Solid State Pulse

Frequency Range
1 - 4 GHz

Power Range
1 - 18 kW

12000SP2z7G3z1 2.7 - 3.1 GHz 12000 W Pulse



Rated Power Output	12000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	2.7 - 3.1 GHz instantaneously
Gain (small signal)	71 dB min.
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 3 kW reflected power (load VSWR > 3:1 @ 12 kW; >6:1 @ 6 kW).
Pulse Capability	
Pulse Width	0.1 - 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% - 90%)
Delay	≤1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Noise Figure	8 dB max.
Harmonic Distortion	minus 30 dBc max at rated power.
Spurious	Minus 60 dBc max.

Primary Power	100 - 264 VAC 50/60 Hz, single phase 6000 W max.
Connectors	RF input Type N female on rear panel RF output Type 7-16 DIN female on rear panel RF output forward and reflected sample ports Type N female on rear panel Pulse input Type BNC female on rear panel
Remote Interfaces	IEEE-488 24-pin Ethernet RJ-45 RS-232 9 pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	114 kg (250 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in.
Export Classification	3A999.d

1500/1000SP1z2G3z1 1.2 - 1.4 GHz, 1500 W Pulse 2.7 - 3.1 GHz, 1000 W Pulse



Rated Power Output	1500 W min. 1.2-1.4 GHz 1000W min. 2.7-3.1 GHz
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	1.2 - 1.4 GHz 2.7 - 3.1 GHz
Gain (small signal)	61.8 dB min., 1.2 - 1.4 GHz 60 dB min., 2.7 - 3.1 GHz
Gain Adjustment	Continuous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2.0:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 375 W (low band)/250 W (high band) reflected power (i.e., load VSWR > 3:1 @ 1.5 kW (low band)/1 kW (high band); VSWR > 6:1 @ 750 W (low band)/500 W (high band).
Pulse Capability	
Pulse Width	0.1 - 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	6% max.
RF Rise and Fall	30 ns max. (10% - 90%)
Delay	≤1 μs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max. (difference between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Noise Figure	≤8 dB max
Harmonic Distortion	30 dBc max.

Spurious	Minus 60 dBc max.
Primary Power	100 - 264 VAC 50/60 Hz 750 W max.
Connectors	RF input Type N female on front panel RF output Type N female on front panel RF output forward and reflected sample ports Type N female on rear panel Pulse input Type BNC female on rear panel
Remote Interfaces	IEEE-488 24-pin Ethernet RJ-45 RS-232 9 pin subminiature D
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	40 kg (87 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm (19.8 x 7.8 x 28.1 in.)
Export Classification	3A999.d



TWT Amplifiers

CW and Pulse Microwave TWT amplifiers offer up to 20000 W and are compliant with the most stringent specifications and standards.



1000T8G18



TWT Amplifiers

Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

300T2G8 2.5 – 7.5 GHz 300 W CW



Power (fundamental), CW @ Output Connector

Nominal 350 W / min. 300 W
Linear @ 1 dB Compression 75 W min.

Flatness ± 12 dB max, equalized for ± 5 dB max. at rated power

Frequency Response 2.5 – 7.5 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 55 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 60 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability

Pulse Width 0.05 microseconds min.
Pulse Rate (PRF) 100 kHz max.
RF Rise and Fall 30 ns max. (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse width distortion ± 30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)

Noise Power Density

(pulse on) Minus 75 dBm/Hz max., Minus 80 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 3 dBc max., Minus 4.5 dBc typ.

Primary Power

190 – 260 VAC
50/60 Hz, single phase
3 kVA max.

Connectors

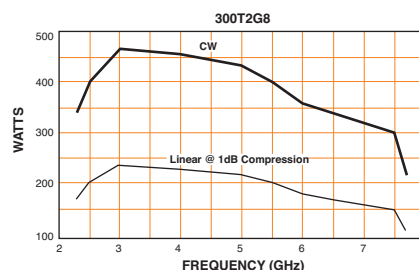
RF input Type N female on rear panel
RF output Type N female on rear panel
RF output sample port Type N female on rear panel
Interlock DB-15 female on rear panel
Video BNC-female on rear panel
GPIO IEEE-488 female on rear panel

Cooling

Forced air (self-contained fans), air entry and exit in rear.

Weight 54 kg (120 lb.)

Size (WxHxD) 50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in.



500T2G8 2.5 – 7.5 GHz 500 W CW



Power (fundamental), CW @ Output Connector

Nominal 541 W / min. 500 W
Linear @ 1 dB Compression 125 W min.

Flatness ± 8 dB max, equalized for ± 5 dB max. at rated power

Frequency Response 2.5 – 7.5 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 57 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 100 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 85 dBm/Hz max., Minus 95 dBm/Hz typ.

Harmonic Distortion Minus 3 dBc max., Minus 3.5 dBc typ.

Primary Power

See Model Configurations

Connectors

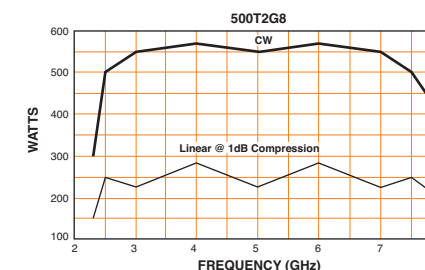
RF input Type N female on rear panel
RF output 7-16 DIN female on rear panel
RF output sample port Type N female on rear panel
Interlock DB-15 female on rear panel
Video BNC-female on rear panel
GPIO IEEE-488 female on rear panel

Cooling

Forced air (self-contained fans), air entry and exit in rear.

Weight 55 kg (120 lb.)

Size (WxHxD) 50.8 x 25.4 x 68.6 cm / 20 x 10 x 27 in.



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TWT Amplifiers

Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

1000T2G8B

2.5 – 7.5 GHz
1000 W CW



Power (fundamental), CW, @ Output Connector
Nominal 1,100 W / min. 900 W, 2.5 – 2.7 GHz,
1000 W, 2.7 – 7.5 GHz
Linear @ 1 dB Compression 250 W min.

Flatness ±8 dB max., equalized for ±3 dB max. at rated power

Frequency Response 2.5 – 7.5 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 60 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 200 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 80 dBm/Hz max., Minus 90 dBm/Hz typ.

Harmonic Distortion
Minus 15 dBc max., Minus 17 dBc typ.

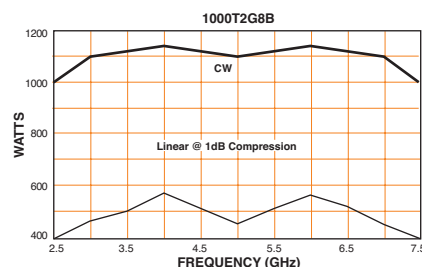
Primary Power
See Model Configurations

Connectors
RF input Type N female on rear panel
RF output Type WRD-250 d30 waveguide flange on rear panel
RF output sample port Type N female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 295 kg (650 lb.)

Size (WxHxD) 56 x 160 x 82.3 cm / 22.1 x 63 x 32.4 in.



1500T2G8A

2.5 – 7.5 GHz
1700 W CW



Power (fundamental), CW, @ Output Connector
Nominal 2000 W / min. 1,600 W, 2.5 – 3 GHz,
1,700 W, 3 – 7.5 GHz
Linear @ 1 dB Compression 400 W min.

Flatness ±8 dB max., equalized for ±6 dB max. at rated power

Frequency Response 2.5 – 7.5 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 62 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 300 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 85 dBm/Hz max., Minus 95 dBm/Hz typ.

Harmonic Distortion
Minus 15 dBc max., Minus 17 dBc typ.

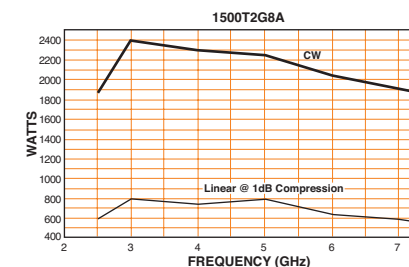
Primary Power
See Model Configurations

Connectors
RF input Type N female on rear panel
RF output Type WRD-250 d30 waveguide flange on rear panel
RF output sample ports (forward and reflected) Type N female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 296 kg (650 lb.)

Size (WxHxD) 56 x 160 x 82.3 cm / 22.1 x 63 x 32.4 in.



TWT Amplifiers

Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

200T4G8 4 – 8 GHz 200 W CW



Power (fundamental), CW, @ Output Connector	
Nominal	262 W / min. 200 W
Linear @ 1 dB Compression	100 W min.
Flatness	±6 dB max. at rated power
Frequency Response	4 – 8 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	53 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 40 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 64 dBm/Hz max., Minus 70 dBm/Hz typ.

Harmonic Distortion
Minus 4 dBc max., Minus 7 dBc typ.

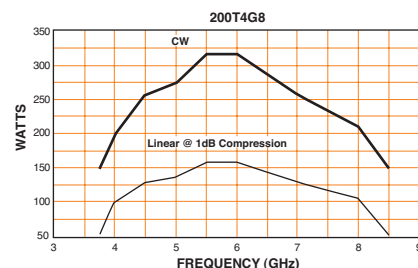
Primary Power
190 – 260 VAC
50/60 Hz, single phase
2 kVA max.

Connectors	
RF input	Type N female on rear panel
RF output	Type N female on rear panel
RF output sample port	Type N female on rear panel
Interlock	DB-15 female on rear panel
GPIO	IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 54 kg (120 lb.)

Size (WxHxD) 50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in.



250T6G18 6 – 18 GHz 250 W CW



Power (fundamental), CW @ Output Connector	
Nominal	300 W / min. 250 W
Flatness	±6 dB max. at rated power
Frequency Response	6 – 18 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	54 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 50 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability
Pulse Width 1 microsecond min.
Pulse Rate (PRF) 100 kHz max.
RF Rise and Fall 30 ns max. (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse width distortion ±30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)

Noise Power Density
(pulse on) Minus 65 dBm/Hz max., Minus 70 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion
Minus 5 dBc max., Minus 8 dBc typ.

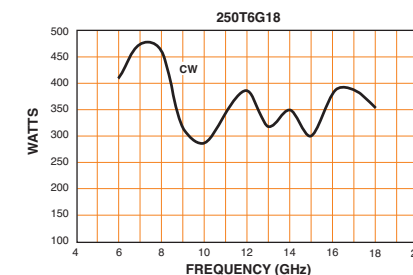
Primary Power
190–260 VAC, 50/60 Hz, single phase, 2 kVA max.

Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-650 waveguide flange on rear panel
RF output sample port	Type N female on rear panel
Interlock	DB-15 female on rear panel
Video	BNC-female on rear panel
GPIO	IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 53 kg (115 lb.)

Size (WxHxD) 50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in.



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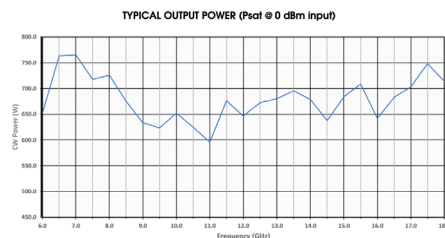
Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

500T6G18 6 – 18 GHz 500 W CW



Rated Power Output (6 – 18 GHz)	
Minimum	500 W
Typical	600 W
Flatness (maximum @ rated power)	
	±7 dB max.
Input for Rated Output	
	1 milliwatt max.
Gain (small signal)	
	57 dB min.
Gain Adjustment (continuous range)	
	35 dB min.
Input Impedance	
	50 ohms, VSWR 2.5:1 max.
Output Impedance	
	50 ohms, VSWR 2.5:1 typ.
Harmonic Distortion	
	Minus 15 dBc max..
Connectors	
RF input	N, female, rear
RF output	WRD-650 waveguide, rear
RF output sample ports	N, female, rear
Interlock	15-pin subminiature D, female
GPIB	IEEE-488 female on rear panel
Cooling	
	Forced air (self-contained fans)
Weight	
	91 kg (201 lb.)
Size (WxHxD)	
	50.3 x 37.6 x 76.2 cm / 19.8 x 14.8 x 32 in.
(No Cabinet)	
	50.3 x 35.6 x 71.1 cm / 19.8 x 14 x 28 in.
Export Classification	
	EAR99

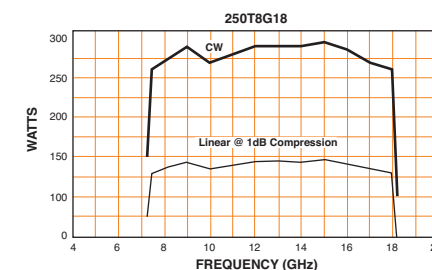


250T8G18 7.5 – 18 GHz 250 W CW



Power (fundamental), CW @ Output Connector	
Nominal	300 W / min. 250 W
Linear @ 1 dB Compression	70 W min.
Flatness ±12 dB max., equalized for ±5 dB max. at rated power	
Frequency Response 7.5 – 18 GHz instantaneously	
Input for Rated Output	
	1 milliwatt max.
Gain (at max. setting)	
	54 dB min.
Gain Adjustment (continuous range)	
	35 dB min.
Input Impedance	
	50 ohms, VSWR 2:1 max.
Output Impedance	
	50 ohms, VSWR 2.5:1 typ.
Mismatch Tolerance	
Output power foldback protection at reflected power exceeding 50 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	
Video Pulse Capability	
Pulse Width	0.05 microseconds min.
Pulse Rate (PRF)	100 kHz max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse width distortion	±30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)

Noise Power Density	
(pulse on) Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.	
Harmonic Distortion	
Below 10 GHz, Minus 5 dBc max., Minus 7 dBc typ.	
10–12 GHz, Minus 8 dBc max., Minus 12 dBc typ.	
Above 12 GHz, Minus 20 dBc max., Minus 30 dBc typ.	
Primary Power	
190 – 260 VAC, 50/60 Hz, single phase, 2.5 kVA max.	
Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-750D24 waveguide flange on rear panel
RF output sample port	Type N female on rear panel
Interlock	DB-15 female on rear panel
Video	BNC-female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	
Forced air (self-contained fans), air entry and exit in rear.	
Weight	
53 kg (115 lb.)	
Size (WxHxD)	
50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in.	



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Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

500T8G18 7.5 – 18 GHz 500 W CW



Power (fundamental), CW, @ Output Connector
Nominal 543 W / min. 500 W
Linear @ 1 dB Compression 125 W min.

Flatness ± 11 dB max., equalized for ± 3 dB max. at rated power

Frequency Response 7.5 – 18 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 57 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 100 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.

Harmonic Distortion
Minus 20 dBc/Hz max., Minus 22 dBc/Hz typ.

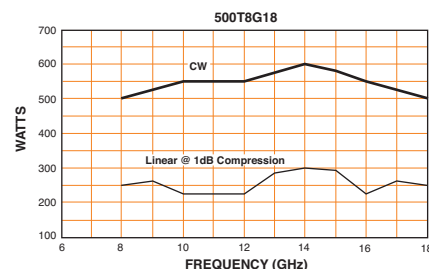
Primary Power
See Model Configurations

Connectors
RF input Type N female on rear panel
RF output Type WRD-750D24 waveguide flange on rear panel
RF output sample port Type N female on rear panel
GPIO IEEE-488 female on rear panel
Interlock DB-15 female on rear panel

Cooling Forced air (self-contained fans), air entry and exit in rear.

Weight 91 kg (200 lb.)

Size (WxHxD) 50.3 x 40.6 x 68.6 cm / 19.8 x 16 x 27 in.



1000T8G18B 7.5 – 18 GHz 1000 W CW



Power (fundamental), CW, @ Output Connector
Nominal 1,100 W
Minimum 1000 W 7.5 – 17 GHz, 925 W 17 – 18 GHz
Linear @ 1 dB Compression 250 W min.

Flatness
 ± 11 dB max., equalized for ± 3 dB max. at rated power

Frequency Response 7.5 – 18 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 60 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 200 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.

Harmonic Distortion
Minus 20 dBc max., Minus 27 dBc typ.

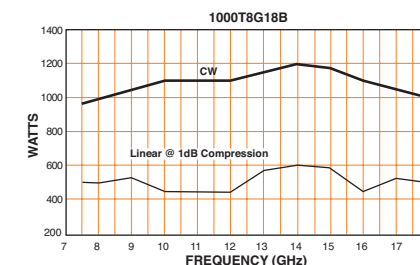
Primary Power
See Model Configurations

Connectors
RF input Type N female on rear panel
RF output Type WRD-750D24 waveguide flange on rear panel
RF output sample port Type N female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 295 kg (650 lb.)

Size (WxHxD) 56 x 160 x 82.3 cm / 22.1 x 63 x 32.4 in.



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Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

1500T8G18 7.5 – 18 GHz 1500 W CW



Power (fundamental), CW, @ Output Connector

Nominal	2000 W / min. 1,500 W
Linear @ 1 dB Compression	375 W min.

Flatness

±11 dB max., equalized for ±6 dB max. at rated power

Frequency Response 7.5 – 18 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 62 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 300 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.

Harmonic Distortion

Minus 20 dBc max., Minus 27 dBc typ.

Primary Power

See Model Configurations

Connectors

RF input Type N female on rear panel
RF output Type WRD-750D24 waveguide flange on rear panel
RF output sample ports (forward and reverse)

Type N female on rear panel

Interlock DB-15 female on rear panel

GPIO IEEE-488 female on rear panel

Cooling

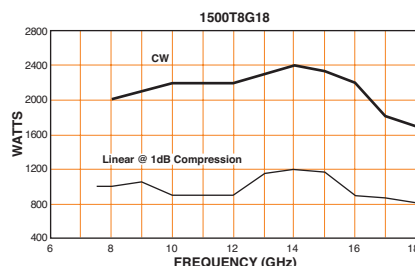
Forced air (self-contained fans), air entry and exit in rear.

Weight

546 kg (1,200 lb.)

Size (WxHxD) (2 cabinets)

56 x 160 x 84 cm / 22.1 x 63 x 33 in. per cabinet



40T18G26A 18 – 26.5 GHz 40 W CW



Power (fundamental), CW, @ Output Connector

Nominal	45 W / min. 40 W
Linear @ 1 dB Compression	10 W min.

Flatness

±8 dB max.

Frequency Response 18 – 26.5 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 46 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 10 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability (S2V Option)

Pulse Width	0.1 microseconds min.
Pulse Rate (PRF)	10 kHz max.
Duty Cycle	

Some restrictions apply. Contact AR with application requirements.

RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max from pulse input to RF90%
Pulse Width Distortion	

30 ns max (50% points of output pulse width compared to 50% points of input pulse width)

Noise Power Density (pulse off) Minus 140 dBm/Hz typ.

Pulse Off Isolation 80 dB min., 90 dB typ.

Pulse Input

TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is selected.

Noise Power Density

Minus 60 dBm/Hz max., Minus 65 dBm/Hz typ.

Harmonic Distortion

–15 dBc max.

Primary Power

See Model Configurations

Connectors

RF input Type K female on rear panel

RF output Type WR-42 waveguide flange on rear panel

RF output sample port Type K female on rear panel

Interlock DB-15 female on rear panel

GPIO IEEE-488 female on rear panel

Pulse Input (S2V Option) BNC female on rear panel

Cooling

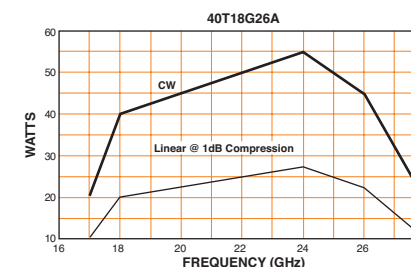
Forced air (self-contained fans), air entry and exit in rear.

Weight

30 kg (65 lb.)

Size (WxHxD)

50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.



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Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

130T18G26z5B 18 – 26.5 GHz 130 W CW



Power (fundamental), CW, @ Output Connector	
Nominal	150 W / min. 130 W
Linear @ 1 dB Compression	30 W min.
Flatness	±9 dB max.
Frequency Response	18 – 26.5 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	52 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 20 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density	Minus 70 dBm/Hz max., Minus 75 dBm/Hz typ.
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Harmonic Distortion	Minus 15 dBc max., Minus 20 dBc typ.
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Primary Power	190 – 260 VAC 50/60 Hz, single phase 0.8 kVA max.
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Connectors

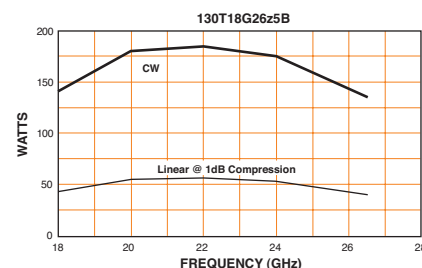
RF input	Type K female on rear panel
RF output	Type WR-42 waveguide flange on rear panel
RF output sample port	Type K female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 on rear panel
Video (S1V Option)	BNC female on rear panel

Cooling

Forced air (self-contained fans), air entry and exit in rear.

Weight	36 kg (80 lb.)
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Size (WxHxD)	50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.
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200T18G26z5A 18 – 26.5 GHz 200 W CW



Power (fundamental), CW, @ Output Connector	
Nominal	225 W / min. 200 W
Linear @ 1 dB Compression	50 W min.
Flatness	±10 dB max.
Frequency Response	18–26.5 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	53 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 40 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability

Pulse Width	0.1 microseconds min.
Pulse Rate (PRF)	10 kHz max.
Duty Cycle	

Some restrictions apply. Contact AR with application requirements.

RF Rise and Fall	100 ns max. (10% – 90%)
Delay	500 ns max from pulse input to RF90%
Pulse Width Distortion	200 ns max (50% points of output pulse width compared to 50% points of input pulse width)
Noise Power Density (pulse off)	Minus 140 dBm/Hz typ.
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	

TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is selected.

Noise Power Density	Minus 70 dBm/Hz max., Minus 75 dBm/Hz typ.
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Harmonic Distortion	Minus 20 dBc max., Minus 30 dBc typ.
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Primary Power	190 – 260 VAC 50/60 Hz, single phase 3 kVA max.
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Connectors

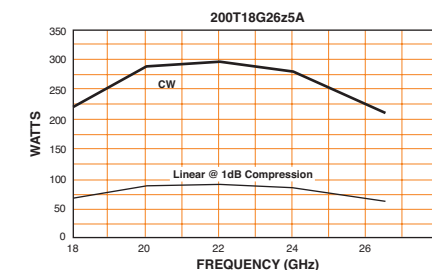
RF input	Type K female on rear panel
RF output	Type WR-42 waveguide flange on rear panel
RF output sample port	Type K female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 on rear panel
Video	BNC female on rear panel

Cooling

Forced air (self-contained fans), air entry and exit in rear.

Weight	91 kg (200 lb.)
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Size (WxHxD)	50.3 x 43 x 81 cm / 19.8 x 17 x 32 in.
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TWT Amplifiers

Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

40T26G40A 26.5 – 40 GHz 40 W CW



Power (fundamental), CW, @ Output Connector
Nominal 45 W / min. 40 W
Linear @ 1 dB Compression 10 W min.

Flatness ±8 dB max.

Frequency Response 26.5 – 40 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 46 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 10 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 60 dBm/Hz max., Minus 70 dBm/Hz typ.

Harmonic Distortion –15 dbc max.

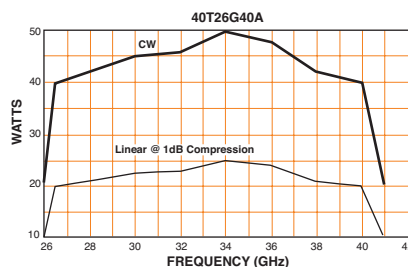
Primary Power
See Model Configurations

Connectors
RF input Type K female on rear panel
RF output Type WR–28 waveguide flange on rear panel
RF output sample port Type K female on rear panel
Interlock DB–15 female on rear panel
GPIO IEEE–488 on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 30 kg (65 lb.)

Size (WxHxD) 50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.



130T26z5G40B 26.5 – 40 GHz 130 W CW



Power (fundamental), CW, @ Output Connector
Nominal 150 W / min. 130 W
Linear @ 1 dB Compression 30 W min.

Flatness ±10 dB max.

Frequency Response 26.5 – 40 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 52 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 20 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density
Minus 70 dBm/Hz max., Minus 75 dBm/Hz typ.

Harmonic Distortion
Minus 15 dBc max., Minus 20 dBc typ.

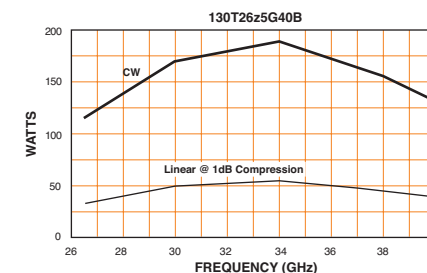
Primary Power
190 – 260 VAC
50/60 Hz, single phase
0.8 kVA max.

Connectors
RF input Type K female on rear panel
RF output Type WR–28 waveguide flange on rear panel
RF output sample port Type K female on rear panel
Interlock DB–15 female on rear panel
GPIO IEEE–488 on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 36 kg (80 lb.)

Size (WxHxD) 50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.



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Frequency Range
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Power Range
40 W – 20 kW

200T26z5G40A

26.5 – 40 GHz
200 W CW



Power (fundamental), CW, @ Output Connector
Nominal 225 W / min. 200 W
Linear @ 1 dB Compression 50 W min.

Flatness ±10 dB max.

Frequency Response 26.5 – 40 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 53 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 40 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability
Pulse Width 0.1 microseconds min.
Pulse Rate (PRF) 10 kHz max.
Duty Cycle

Some restrictions apply. Contact AR with application requirements.

RF Rise and Fall 100 ns max. (10% – 90%)
Delay 500 ns max from pulse input to RF90%
Pulse Width Distortion

200 ns max (50% points of output pulse width compared to 50% points of input pulse width)

Noise Power Density (pulse off) Minus 140 dBm/Hz typ.
Pulse Off Isolation 80 dB min., 90 dB typ.
Pulse Input

TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is selected.

Noise Power Density
Minus 70 dBm/Hz max., Minus 75 dBm/Hz typ.

Harmonic Distortion
Minus 20 dBc max., Minus 30 dBc typ.

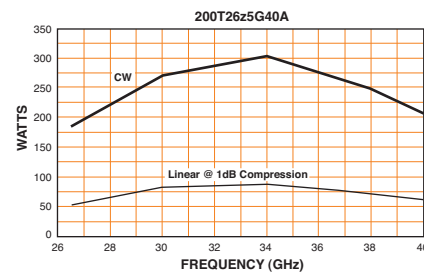
Primary Power
190 – 260 VAC
50/60 Hz, single phase
3 kVA max.

Connectors
RF input Type K female on rear panel
RF output Type WR-42 waveguide flange on rear panel
RF output sample port Type K female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 on rear panel
Video BNC female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 91 kg (200 lb.)

Size (WxHxD) 50.3 x 43 x 81 cm / 19.8 x 17 x 32 in.



70T40G50

40 – 50 GHz
70 W CW



Power (fundamental), CW, @ Output Flange
Minimum 70 W, 40 GHz – 45 GHz
50 W, 45 GHz – 50 GHz

Flatness ±3 dB max. at rated power

Frequency Response 40 – 50 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at maximum setting) 47 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output power foldback protection at reflected power exceeding 20 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Harmonic Distortion Minus 15 dBc typ.

Spurious Response (non-harmonic)
Minus 50 dBc typ. (excluding harmonics)

Primary Power
190 – 260 VAC
50/60 Hz, single phase
1 kVA max.

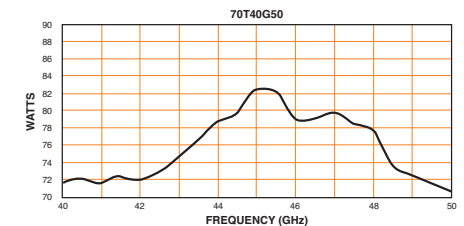
Connectors
RF input Type 2.4 mm female on rear panel
RF output Type WR-22 waveguide flange on rear panel, all tapped
RF output sample ports (forward and reflected) Type 2.4 mm female on rear panel
Remote Interface IEEE-488
Interlock DB-15 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 42 kg (93 lb.)

Size (WxHxD) 48.26 x 16.5 x 76.2 cm / 19 x 6.5 x 30 in.

Export Classification EAR99



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Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

100T40G50 40 – 50 GHz 100 W CW



Power (fundamental), CW, @ Output Connector
Minimum 100 W

Flatness ±8 dB max.

Frequency Response 40 – 50 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (small signal) 50 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Modulation Capability:

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

Harmonic Distortion

Minus 22 dBc typ.

Primary Power

190 – 260 VAC
50/60 Hz, single phase
1.5 kVA max.

Connectors

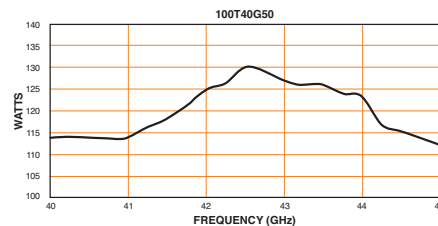
RF input Type 2.4 mm female on front panel
RF output Type WR-22 waveguide flange on rear panel
RF output sample ports Type 2.4 mm female on rear panel
Interlock DB-15 female on rear panel
 GPIB IEEE-488 female on rear panel

Cooling

Forced air (self-contained fans), air entry and exit in rear.

Weight 82 kg (180 lb.)

Size (WxHxD) 50.3 x 43 x 76 cm / 19.8 x 17 x 30 in.



4000TP2G4 2 – 4 GHz 4000 W Pulse



Power (fundamental), Peak Pulse, @ Output
Nominal 5800 W / min. 4.7 kW

Flatness ±10 dB max.

Frequency Response 2 – 4 GHz

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 66 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2.5:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability

Pulse Width 0.07 – 50 microseconds
Pulse Rate (PRF) 100 kHz max.
Duty Cycle 4% max.
RF Rise and Fall 35 ns max. (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse Width Distortion ±50 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation 80 dB min., 90 dB typ.
Pulse Input TTL level, 50 ohm nominal termination

Noise Power Density

(pulse on) Minus 57 dBm/Hz max., Minus 59 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 0 dBc max.

Primary Power See Model Configurations

Connectors

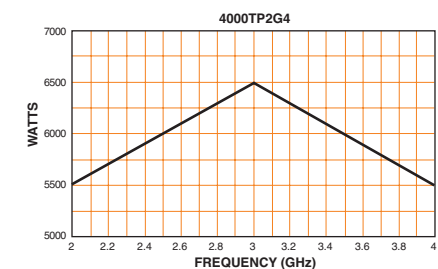
RF input Type N female on rear panel
RF output Type N female on rear panel
RF output forward sample port Type N female on rear panel
Pulse input Type BNC female on rear panel
Interlock DB-15 female on rear panel
 GPIB IEEE-488 female on rear panel

Cooling

Forced air (self-contained fans), air entry and exit in rear.

Weight 75 kg (165 lb.)

Size (WxHxD) 51 x 27 x 81 cm / 19.8 x 10.5 x 32 in.



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Power Range
40 W – 20 kW

6900TP2G4

2 – 4 GHz

6900 W Pulse



Power (fundamental), Peak Pulse, @ Output	
Nominal	9000 W; Minimum, 6900 W
Flatness	
	±8 dB maximum, ±4 dB at rated power
Frequency Response	
	2 – 4 GHz
Input for Rated Output	
	1 milliwatt max.
Gain (at max. setting)	
	68 dB min.
Gain Adjustment (continuous range)	
	35 dB min.
Input Impedance	
	50 ohms, VSWR 2.5:1 max.
Output Impedance	
	50 ohms, VSWR 2.5:1 typ.
Mismatch Tolerance	
Output pulse width foldback protection at peak reflected power exceeding 4000 watts. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	
Pulse Capability	
Pulse Width	0.2 – 50 microseconds.
Pulse Rate (PRF)	100 kHz maximum
Duty Cycle	4% maximum.
RF Rise and Fall	70 ns max (10% – 90%).
Delay	500 ns maximum from pulse input to RF 90%
Pulse Width Distortion	±50 ns maximum (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB minimum, 90 dB typical
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density (pulse on) Minus 55 dBm/Hz (maximum);
Minus 84 dBm/Hz (typical)
(pulse off) Minus 140 dBm/Hz (typical)

Harmonic Distortion Minus 15 dBc max.

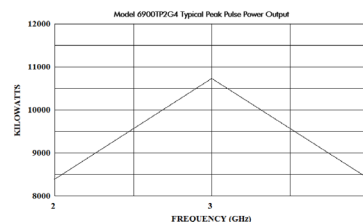
Primary Power See Model Configurations

Connectors RF input: Type N female on rear panel
RF output: Type DIN 7-16 female on rear panel
RF output sample ports (forward and reflected): Type N female on rear panel
Pulse input: Type BNC female on rear panel
GPIO: IEEE-488 female on rear panel
Interlock: DB-15 female on rear panel

Cooling Forced air (self-contained fans), air entry and exit in rear.

Weight 121 kg, 265 lbs

Size (WxHxD) 50.3 x 48 x 89 cm, 19.8 x 19 x 35 in



2000TP2G8B

2.5 – 7.5 GHz

2000 W Pulse



Power (fundamental), Peak Pulse, @ Output Connector
Nominal 2,200 W / min. 2000 W

Flatness ±13 dB max., equalized for ±4 dB max. at rated power

Frequency Response 2.5 – 7.5 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 63 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2.5:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability
Pulse Width 0.07 – 30 microseconds
Pulse Rate (PRF) 100 kHz max.
Duty Cycle 4% max.
RF Rise and Fall 30 ns max (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse Width Distortion ±30 ns max (50% points of output pulse width compared to 50% points of input pulse width)

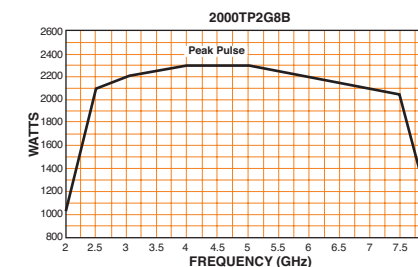
Pulse Off Isolation 80 dB min., 90 dB typ.
Pulse Input termination TTL level, 50 ohm nominal

Noise Power Density (pulse on) Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 0 dBc max., Minus 1.5 dBc typ.

Primary Power 190 – 260 VAC
Single phase, 50/60 Hz
1.2 kVA max.

Connectors
RF input Type N female on rear panel
RF output Type N female on rear panel
RF output sample port Type N female on rear panel
Pulse input Type BNC female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 female on rear panel



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2.5 – 50 GHz

Power Range
40 W – 20 kW

8000TP2z7G3z1

2.7 – 3.1 GHz

8000 W Pulse



Power (fundamental), CW, @ Output Connector	
Nominal	10000 W / min. 8000 W
Flatness	±6 dB max.
Frequency Response	
	2.7 – 3.1 GHz

Input for Rated Output	1 milliwatt max.
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Gain (at max. setting)	69 dB min.
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Gain Adjustment (continuous range)	35 dB min.
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Input Impedance	50 ohms, VSWR 2.5:1 max.
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Output Impedance	50 ohms, VSWR 2.5:1 typ.
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Mismatch Tolerance	
Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	

Pulse Capability	
Pulse Width	0.1 – 40 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	1% max.
RF Rise and Fall	50 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	±30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density	
(pulse on)	Minus 55 dBm/Hz max., Minus 80 dBm/Hz typ.
(pulse off)	Minus 140 dBm/Hz typ.

Harmonic Distortion	Minus 20 dBc max.
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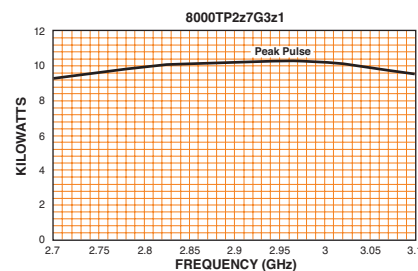
Primary Power	
	190 – 260 VAC
	50/60 Hz, three phase, delta (4 wire)
	2 kVA max.

Connectors	
RF input	Type N female on rear panel
RF output	Type DIN 7–16 female on rear panel
RF output sample ports (forward and reflected)	Type N female on rear panel
Pulse Input	Type BNC female on rear panel
Interlock	DB–15 female on rear panel
GPIB	IEEE–488 female on rear panel

Cooling	
	Forced air (self-contained fans), air entry and exit in rear.

Weight	61 kg (135 lb.)
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Size (WxHxD)	50.3 x 26 x 88.9 cm / 19.8 x 10.3 x 35 in.
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4000TP4G8

4 – 8 GHz

4000 W Pulse



Power (fundamental), Peak Pulse, @ Output	
Nominal	5000 W / min. 3.8 kW from 4 – 4.5 GHz,
	4 kW from 4.5 – 7.5 GHz, 3.8 kW from 7.5 – 8 GHz

Flatness	±10 dB min.
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Frequency Response	4 – 8 GHz
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Input for Rated Output	1 milliwatt max.
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Gain (at max. setting)	66 dB min.
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Gain Adjustment (continuous range)	35 dB min.
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Input Impedance	50 ohms, VSWR 2.5:1 max.
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Output Impedance	50 ohms, VSWR 2.5:1 typ.
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Mismatch Tolerance	
Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	

Pulse Capability	
Pulse Width	0.07 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	35 ns max. (10% to 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distortion	±50 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density	
(pulse on)	Minus 65 dBm/Hz max., Minus 75 dBm/Hz typ.
(pulse off)	Minus 140 dBm/Hz typ.

Harmonic Distortion	Minus 0 dBc max.
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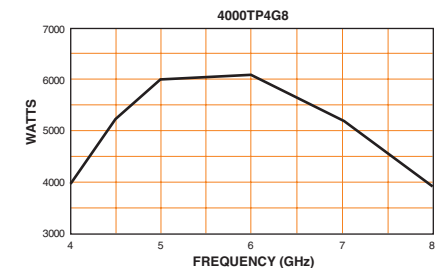
Primary Power	See Model Configurations in Specification
	3 kVA max.

Connectors	
RF input	Type N female on rear panel
RF output	Type WRD–350 waveguide flange on rear panel
RF output forward sample port	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB–15 female on rear panel
GPIB	IEEE–488 female on rear panel

Cooling	
	Forced air (self-contained fans), air entry and exit in rear.

Weight	71 kg (155 lb.)
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Size (WxHxD)	See Model Configurations on spec sheet via www.arworld.us
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Power Range
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7400TP4G8

4 – 8 GHz

7400 W Pulse

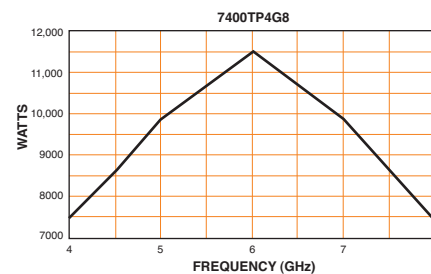


Power (fundamental), Peak Pulse, @ Output	
Nominal	10000 W / min. 7,400 W
Flatness	±10 dB min., ±5 dB at rated power
Frequency Response	4 – 8 GHz
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	69 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.
Mismatch Tolerance	
Output pulse width foldback protection at peak reflected power exceeding 2000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	

Pulse Capability	
Pulse Width	0.2 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	70 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	±50 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density	
(pulse on)	Minus 65 dBm/Hz max., Minus 85 dBm/Hz typ.
(pulse off)	Minus 140 dBm/Hz typ.

Harmonic Distortion	Minus 12 dBc max.
Primary Power	See Model Configurations in Specification 5 kVA max.
Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-350 waveguide flange on rear panel
RF output forward and reflected sample ports	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIO	IEEE-488 female on rear panel
Cooling	Forced air (self-contained fans), air entry and exit in rear.
Weight	123 kg (270 lb.)
Size (WxHxD)	50.3 x 53 x 91 cm / 19.8 x 21 x 36 in.



1000TP8G18

7.5 – 18 GHz

1000 W Pulse

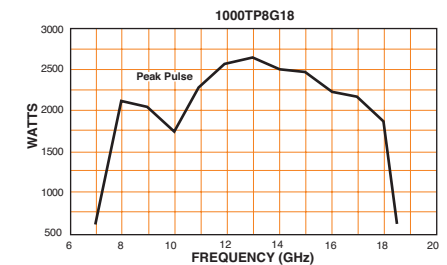


Power (fundamental), Peak Pulse, @ Output Connector	
Nominal	1,800 W / min. 1000 W
Flatness	±8 dB max., equalized for ±3 dB max. at rated power
Frequency Response	7.5 – 18 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	60 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.
Mismatch Tolerance	
Output pulse width foldback protection at peak reflected power exceeding 500 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	

Pulse Capability	
Pulse Width	0.07 – 100 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distortion	±30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min. / 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density	
(pulse on)	Minus 57 dBm/Hz max., Minus 58 dBm/Hz typ.
(pulse off)	Minus 140 dBm/Hz typ.

Harmonic Distortion	Minus 2 dBc max., Minus 3 dBc typ.
Primary Power	190 – 260 VAC 50/60 Hz, single phase 1.5 kVA max.
Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-750D24 waveguide flange on rear panel
RF output forward sample port	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIO	IEEE-488 female on rear panel
Cooling	Forced air (self-contained fans), air entry and exit in rear.
Weight	52 kg (115 lb.)
Size (WxHxD)	50.3 x 25.4 x 69 cm / 19.8 x 10 x 27 in.
Export Classification	3A999.d



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Power Range
40 W – 20 kW

2000TP8G18 7.5 – 18 GHz 2000 W Pulse



Power (fundamental), Peak Pulse, @ Output Connector
Nominal 2,500 W / min. 2000 W

Flatness ± 8 dB max., equalized for ± 3 dB max. at rated power

Frequency Response 7.5 – 18 GHz instantaneously

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 63 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2.5:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output pulse width foldback protection at average reflected power exceeding 1000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability
Pulse Width 0.07 – 30 microseconds
Pulse Rate (PRF) 100 kHz max.
Duty Cycle 4% max.
RF Rise and Fall 30 ns max. (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse Width Distortion

± 30 ns max (50% points of output pulse width

compared to 50% points of input pulse width)

Pulse Off Isolation 80 dB min. / 90 dB typ.
Pulse Input TTL level, 50 ohm nominal termination

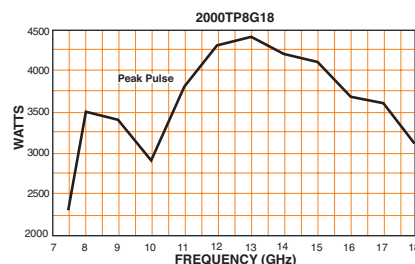
Noise Power Density
(pulse on) Minus 55 dBm/Hz max., Minus 58 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 18 dBc max., Minus 20 dBc typ.

Primary Power 190 – 260 VAC
50/60 Hz, single phase
3 kVA max.

Connectors
RF input Type N female on rear panel
RF output Type WRD-750D24 waveguide flange on rear panel
RF output forward sample port Type N female on rear panel
Pulse input Type BNC female on rear panel
Interlock DB-15 female on rear panel
 GPIB IEEE-488 female on rear panel

Cooling



4000TP8G12 8 – 12 GHz 4000 W Pulse



Power (fundamental), Peak Pulse, @ Output
Nominal 5,500 W / min. 4,200 W

Flatness ± 10 dB max.

Frequency Response 8 – 12 GHz

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 66 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2.5:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability
Pulse Width 0.07 – 50 microseconds
Pulse Rate (PRF) 100 kHz max.
Duty Cycle 4% max.
RF Rise and Fall 35 ns max. (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse Width Distortion
 ± 30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation 80 dB min., 90 dB typ.
Pulse Input TTL level, 50 ohm nominal termination

Noise Power Density
(pulse on) Minus 57 dBm/Hz max., Minus 59 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 10 dBc max.

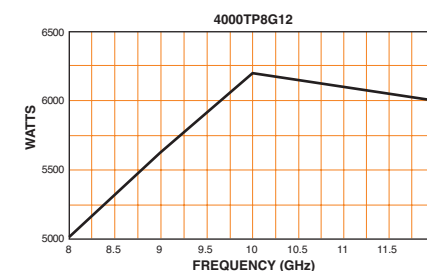
Primary Power See Model Configurations in Specification
3 kVA max.

Connectors
RF input Type N female on rear panel
RF output Type WRD-90 waveguide flange on rear panel
RF output forward sample port Type N female on rear panel
Pulse input Type BNC female on rear panel
Interlock DB-15 female on rear panel
 GPIB IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 75 kg (165 lb.)

Size (WxHxD) 51 x 27 x 69 cm / 19.8 x 10.5 x 27 in.



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Power Range
40 W – 20 kW

8300TP8G12

8 – 12 GHz
8300 W Pulse

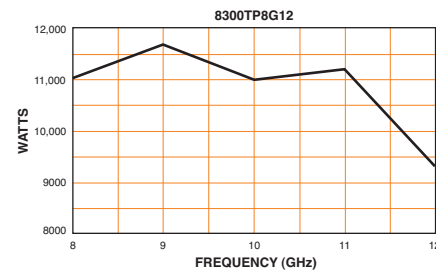


Power (fundamental), Peak Pulse, @ Output	
Nominal	10000 W / min. 8,300 W
Flatness	±10 dB max., ±5 dB at rated power
Frequency Response	8 – 12 GHz
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	69 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.
Mismatch Tolerance	
Output pulse width foldback protection at peak reflected power exceeding 4000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	

Pulse Capability	
Pulse Width	0.2 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	70 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	±50 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density	
(pulse on)	Minus 70 dBm/Hz max., Minus 73 dBm/Hz typ.
(pulse off)	Minus 140 dBm/Hz typ.

Harmonic Distortion	Minus 15 dBc max.
Primary Power	See Model Configurations in Specification 5 kVA max.
Connectors	
RF input	Type N precision female on rear panel
RF output	Type WR-90 waveguide flange on rear panel
RF output forward and reflected sample ports	Type N precision female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIO	IEEE-488 female on rear panel
Cooling	Forced air (self-contained fans), air entry and exit in rear.
Weight	121 kg (265 lb.)
Size (WxHxD)	50.3 x 43 x 84 cm / 19.8 x 17 x 33 in.



20000TP8G12

8 – 12 GHz
20000 W Pulse

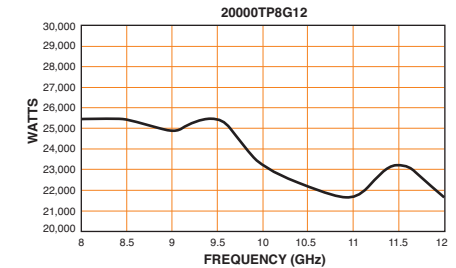


Power (fundamental), Peak Pulse, @ Output	
Nominal	22000 W / min. 20000 W
Flatness	±10 dB max., ±6 dB at rated power
Frequency Response	8 – 12 GHz
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	73 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.
Mismatch Tolerance	
Output pulse width foldback protection at peak reflected power exceeding 5000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.	

Pulse Capability	
Pulse Width	0.1 – 40 microseconds
Pulse Rate (PRF)	20 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	150 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	±50 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density	
(pulse on)	Minus 65 dBm/Hz max., Minus 85 dBm/Hz typ.
(pulse off)	Minus 140 dBm/Hz typ.

Harmonic Distortion	Minus 19 dBc max.
Primary Power	208 VAC ±10% Three phase, delta (4-wire), 50/60 Hz 12 kVA max.
Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-90 female on rear panel
RF output forward sample ports (forward and reflected)	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIO	IEEE-488 female on rear panel
Cooling	Forced air (self-contained fans), air entry and exit in rear.
Weight	575 kg (1,250 lb.)
Size (WxHxD)	57.5 x 196 x 82.5 cm / 22.6 x 77.2 x 32.5 in.
Export Classification	3A999.d



TWT Amplifiers

Frequency Range
2.5 – 50 GHz

Power Range
40 W – 20 kW

3000TP12G18 12 – 18 GHz 3000 W Pulse



Power (fundamental), Peak Pulse, @ Output
Nominal 3,800 W / min. 3000 W

Flatness ±10 dB max.

Frequency Response 12 – 18 GHz

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 65 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2.5:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability
Pulse Width 0.07 – 50 microseconds
Pulse Rate (PRF) 100 kHz max.
Duty Cycle 4% max.
RF Rise and Fall 30 ns max. (10% – 90%)
Delay 300 ns max. from pulse input to RF 90%
Pulse Width Distortion ±30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation 80 dB min., 90 dB typ.
Pulse Input TTL level, 50 ohm nominal termination

Noise Power Density
(pulse on) Minus 55 dBm/Hz max., Minus 65 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 8 dBc max.

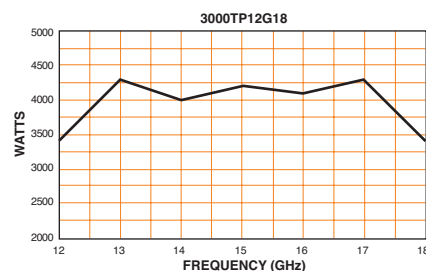
Primary Power See Model Configurations in Specification
2 kVA max.

Connectors
RF input Type N female on rear panel
RF output Type WR-62 waveguide flange on rear panel
RF output forward sample port Type N female on rear panel
Pulse input Type BNC female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 52 kg (115 lb.)

Size (WxHxD) 50.3 x 26 x 81 cm / 19.8 x 10 x 31.9 in.



5700TP12G18 12 – 18 GHz 5700 W Pulse



Power (fundamental), Peak Pulse, @ Output
Nominal 7000 W / min. 5700 W

Flatness ±10 dB min., ±5 dB at rated power

Frequency Response 12 – 18 GHz

Input for Rated Output 1 milliwatt max.

Gain (at max. setting) 67 dB min.

Gain Adjustment (continuous range) 35 dB min.

Input Impedance 50 ohms, VSWR 2.5:1 max.

Output Impedance 50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance
Output pulse width foldback protection at peak reflected power exceeding 3000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability
Pulse Width 0.2 – 50 microseconds
Pulse Rate (PRF) 100 kHz max.
Duty Cycle 4% max.
RF Rise and Fall 70 ns max. (10% – 90%)
Delay 500 ns max. from pulse input to RF 90%
Pulse Width Distortion ±50 ns max. (50% points of output pulse width compared to 50% points of input pulse width)
Pulse Off Isolation 80 dB min., 90 dB typ.
Pulse Input TTL level, 50 ohm nominal termination

Noise Power Density
(pulse on) Minus 55 dBm/Hz max., Minus 80 dBm/Hz typ.
(pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion Minus 15 dBc max.

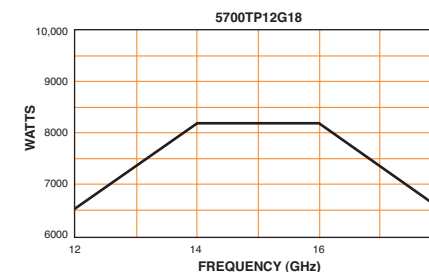
Primary Power See Model Configurations in Specification
5 kVA max.

Connectors
RF input Type N precision female on rear panel
RF output Type WR-62 waveguide flange on rear panel
RF output forward and reflected sample ports Type N precision female on rear panel
Pulse input Type BNC female on rear panel
Interlock DB-15 female on rear panel
GPIO IEEE-488 female on rear panel

Cooling
Forced air (self-contained fans), air entry and exit in rear.

Weight 121 kg (265 lb.)

Size (WxHxD) 50.3 x 43 x 84 cm / 19.8 x 17 x 33 in.



Product Catalog | 2024

For Sales, call: 215.723.8181

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Systems

Test systems by AR can deliver a solution that integrates all your testing needs for radiated and conducted immunity, radiated and conducted emissions, and more. With a highly experienced team, we have the expertise to supply fully automated systems needed to test various EMC standards.



MT2IEC10V3M Multi-Tone RF Radiated Immunity System



The MT2IEC10V3M Multi-Tone system is designed to develop a 1.5 x 1.5 meter uniform field area (UFA) with an 18 V/m CW field strength at up to a 3 meter test distance in accordance with IEC 61000-4-3. This system has an operating frequency range from 80 MHz – 6 GHz. Two internal signal generators allow two simultaneous test frequencies allowing for an up to 50% reduction in sweep time.

The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers

The MT2IEC10V3M AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details.

The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

AR Standardized Systems are customizable upon request. Contact AR for all such requests.

Complete Testing Solutions to the following standards:

Radiated Immunity

- EN/IEC 61000–4–3
- ISO11452–2 Auto (ALSE)
- ISO11452–3 Auto (TEM cells)
- ISO11451–5 Auto (Strip Line)
- ISO11451 – 2 Full Vehicle
- DO–160 Section 20.5 (Substitution Method)
- EN/IEC 60601–1, –2
- EN 50130–4
- EN 61000–6–1/2
- EN 55024

System Frequency Range	80 MHz - 6 GHz
Number of Tones	Up to two
Field Strength	18 V/m CW (10 V/m w/ 80% AM)
Test Distance	Up to 3 meters
UFA	1.5 x 1.5 meters
Amplifier Configuration	Models: 250W1000C, 250 W, 80 - 1000 MHz; 75S1G6C, 75 W, 1 - 6 GHz
Antenna Configuration	Models: ATR80M6G, Log-Periodic, 80 MHz - 6 GHz; ATT700M12G, Log-Periodic, 700 MHz - 12 GHz
RF Cable Configuration	Two sets (one for each amp/antenna) consisting of 2 and 5 meter lengths and designated bulkhead feedthroughs for each set.
Software Configuration	System and testing will be controlled using emcware® software which is preloaded and delivered on a new PC as part of overall system.
Design Approach	Self-contained equipment rack with internal pre-wired RF and power with automatic RF switching via SCP2000. AC power is filtered and distributed through an internal power distribution unit. All RF equipment input and outputs are on rear-panel of devices.
Export Classification	3A001

MT4IEC10V3M Multi-Tone RF Radiated Immunity System



The MT4IEC10V3M Multi-Tone system is designed to develop a 1.5 x 1.5 meter uniform field area (UFA) with an 18 V/m CW field strength at up to a 3 meter test distance in accordance with IEC 61000-4-3. This system has an operating frequency range from 80 MHz – 6 GHz. Four internal signal generators allow you to four simultaneous test frequencies allowing for an up to 74% reduction in sweep time. The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers. The MT4IEC10V3 AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details.

Complete Testing Solutions to the following standards:

Radiated Immunity

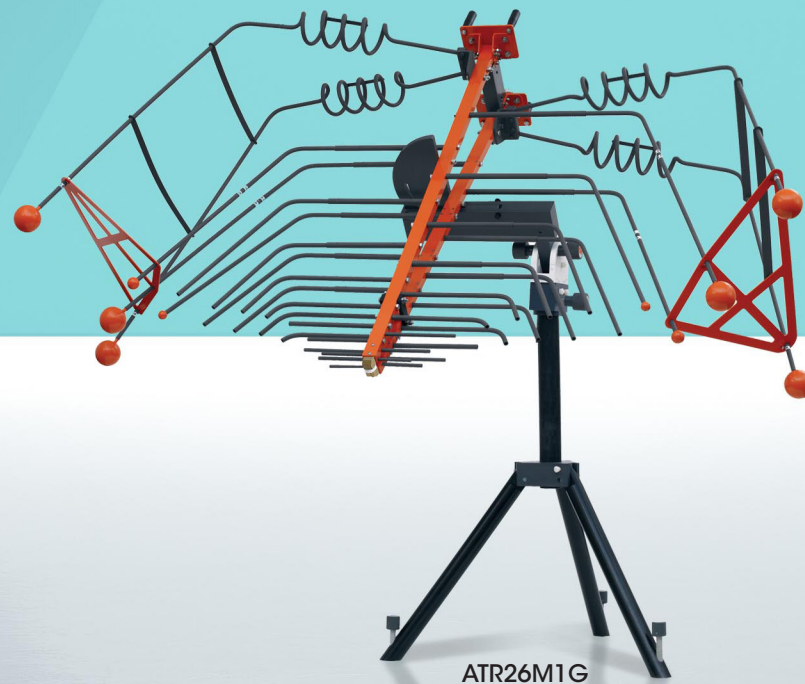
- EN/IEC 61000–4–3
- ISO11452–2 Auto (ALSE)
- ISO11452–3 Auto (TEM cells)
- ISO11451–5 Auto (Strip Line)
- ISO11451 – 2 Full Vehicle
- DO–160 Section 20.5 (Substitution Method)
- EN/IEC 60601–1, –2
- EN 50130–4
- EN 61000–6–1/2
- EN 55024

System Frequency Range	80 MHz - 6 GHz
Number of Tones	Up to four
Field Strength	18 V/m CW (10 V/m w/ 80% AM)
Test Distance	Up to 3 meters
UFA	1.5 x 1.5 meters
Amplifier Configuration	Models: 500W1000C, 500 W, 80 - 1000 MHz; 125S1G6C, 125 W, 1 - 6 GHz
Antenna Configuration	Models: ATR80M6G, Log-Periodic, 80 MHz - 6 GHz; ATT700M12G, Log-Periodic, 700 MHz - 12 GHz
RF Cable Configuration	Two sets (one for each amp/antenna) consisting of 2 and 5 meter lengths and designated bulkhead feedthroughs for each set.
Software Configuration	System and testing will be controlled using emcware® software which is preloaded and delivered on a new PC as part of overall system.
Design Approach	Self-contained equipment rack with internal pre-wired RF and power with automatic RF switching via SCP2000. AC power is filtered and distributed through an internal power distribution unit. All RF equipment input and outputs are on rear-panel of devices.
Export Classification	3A001



Antennas

AR offers a wide range of high power, log periodic, high-gain horn, and bent element antennas, and more. With antennas available up to 50 GHz and 20,000 W of input CW power, our innovative antennas offer features available exclusively from AR.



ATR26M1G

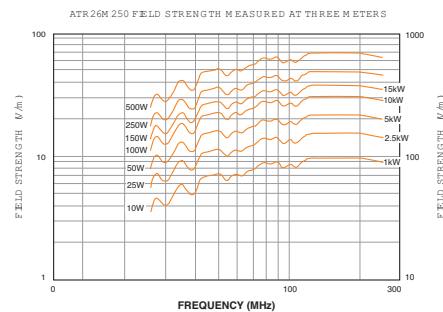
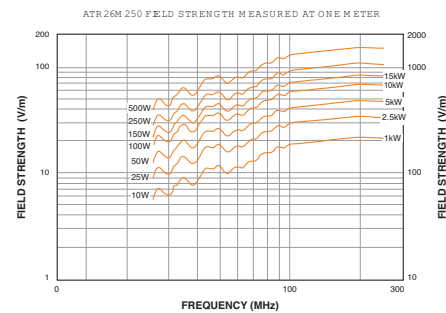


ATR26M250 26 – 250 MHz 15000 W

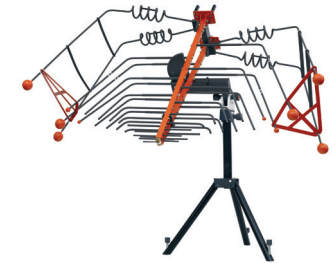


Frequency range	26 – 250 MHz
Power input (max.)	15000 W
Gain (over isotropic)	–3 to +6 dBi (26 – 80 MHz) 6 dBi (80 – 250 MHz)
Gain flatness	±1.5 dBi (80 – 250 MHz)
Impedance	50 ohms nominal
VSWR (max.)	3.5:1 (80 – 250 MHz) 10:1 (26 – 80 MHz)
Beamwidth (average)	Typical curves available on request
Connector	1 5/8 EIA
Size (w x h x d)	279.4 x 53.6 x 202.4 cm (110 x 21.1 x 79.7 in.)
Weight (max.)	31.8 kg (70 lb.)

Mounting
May be mounted in two perpendicular planes using an optional antenna positioner (AP5010B). One non-metallic mast (4 foot) is included for vertical mounting.

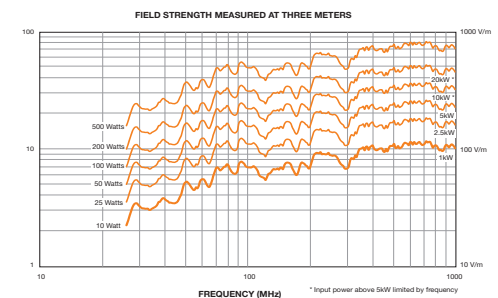
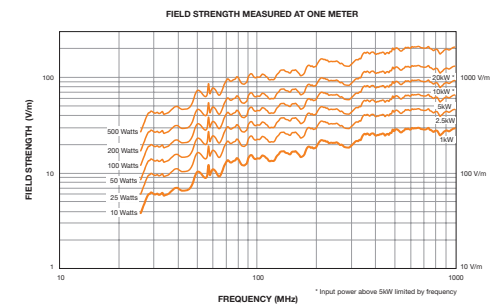


ATR26M1G 26 MHz – 1 GHz 20000 W



Frequency range	26 MHz–1 GHz
Power input, CW	20 kW @ 26 MHz, derate to 5 kW @ 1000 MHz
Gain (over isotropic)	–8 to 0 dB (26–80 MHz) 0–6 dB (80–1000 MHz)
Gain flatness	±3 dB (80–1000 MHz)
Impedance	50 ohms nominal
VSWR (max.)	6:1 (26–80 MHz) 3.5:1 (80–1000 MHz)
Beamwidth (average)	Typical curves available on request
Connector	1 5/8 EIA male with removable center bullet
Size (W X H X D)	231 x 66 x 183 cm (91 x 26 x 72 in.)
Weight (max.)	29.5 kg (65 lb.)

Mounting
May be mounted in two perpendicular planes using an optional antenna positioner (AP5010B). One non-metallic mast (4 foot) is included for vertical mounting.



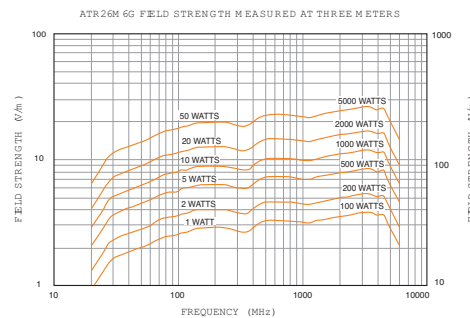
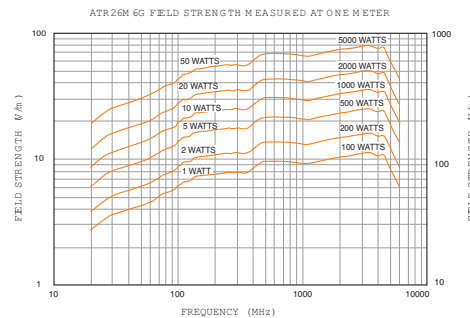
ATR26M6G

26 MHz – 6 GHz

5000 W

Frequency range	26 MHz – 6 GHz
Power input (max.)	5000 W
Gain (over isotropic)	–3 to +6 dBi (26 – 80 MHz) 6 dBi (80 MHz – 6 GHz)
Gain flatness	±1.5 dB (80 – 6 GHz)
Impedance	50 ohms nominal
VSWR (max.)	3:1 (80 – 6 GHz) 10:1 (26 – 80 MHz)
Beamwidth (average)	Typical curves available on request
Connector	Type N (F) quick change connector
Size (w x h x d)	279.4 x 53.6 x 202.4 cm (110 x 21.1 x 79.7 in.)
Weight (max.)	22.7 kg (50 lb.)
Mounting	

May be mounted in two perpendicular planes using an optional antenna positioner (AP5010B). One non-metallic mast (4 foot) is included for vertical mounting.



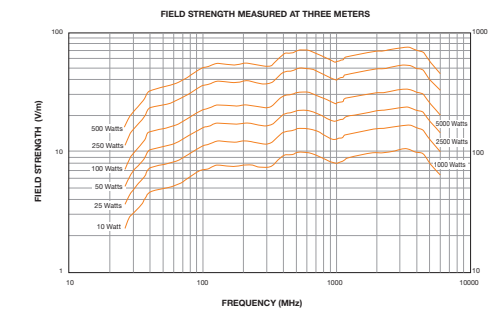
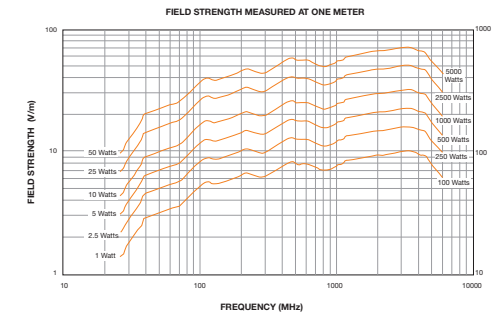
ATR26M6G-1

26 MHz – 6 GHz

5000 W

Frequency range	26 MHz – 6 GHz
Power input (max.)	5000 W
Gain (over isotropic)	–4 to 6 dB (26 – 80 MHz) 6 dB (80 MHz – 6 GHz)
Gain flatness	±1.5 dB (80 MHz – 6 GHz)
Impedance	50 ohms nominal
VSWR (max.)	6:1 (26 – 80 MHz) 3:1 (80 MHz – 6 GHz)
Beamwidth (average)	Typical curves available on request
Connector	Type N (F) quick change connector; Type C (F) supplied for higher power applications
Size (w x h x d)	218.4 x 73.7 x 161.3 cm (86 x 29 x 63.5 in.)
Weight (max.)	13.6 kg (30 lb.)
Mounting	

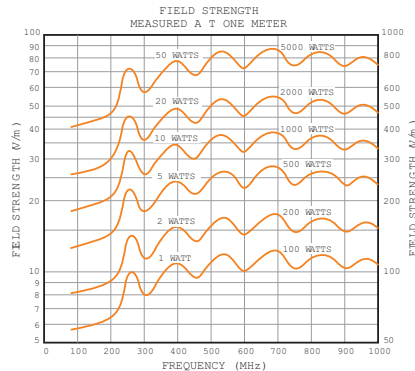
May also be mounted using the optional AP5010B antenna positioner or the TP1000BM3 tripod with ballast tray. Also includes 2 non-metallic masts (4 and 6 feet) vertical mounting.



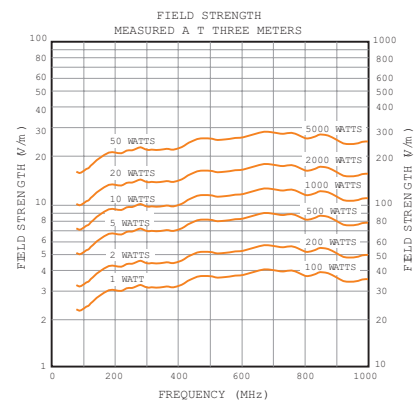
ATL80M1G

80 MHz – 1 GHz
5000 W

Frequency range	80 MHz – 1 GHz
Power input (max.)	5000 W
Gain (over isotropic)	6.5 dBi min. 7.5 dBi avg.
Gain flatness	±1 dB
Impedance	50 ohms nominal
VSWR (max.)	1.8:1 (max.) 1.5:1 (average)
Beamwidth (average)	E plane 60° H plane 105°
Front to back ratio (min.)	15 dB
Connector	Type N (F) quick change connector Type C (F) supplied for higher power applications
Size (w x h x d)	193 x 13 x 160 cm (76 x 5.1 x 63 in.)
Weight (max.)	7.7 kg (17 lb)
Mounting	May be mounted using the optional TP1000B tripod.



Note: Curves above 1000 and 2000 watts do not apply past power/frequency limits of the antenna.



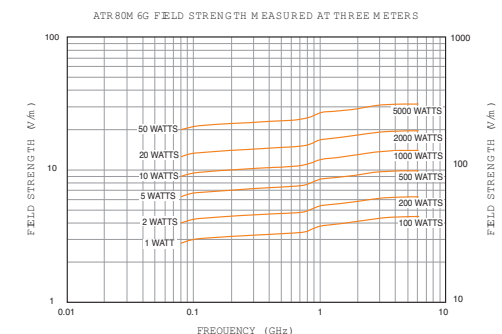
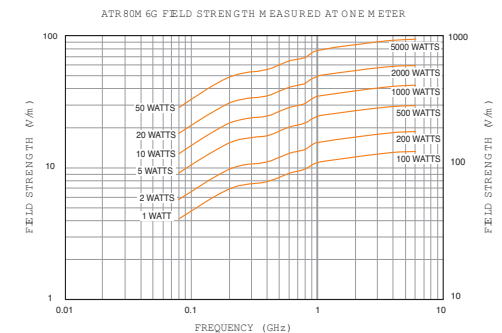
ATR80M6G

80 MHz – 6 GHz
5000 W

Frequency range	80 MHz–6 GHz
Power input (max.)	5000 W
Gain (over isotropic)	6 dBi
Gain flatness	±2 dB
Impedance	50 ohms nominal
VSWR (max.)	3:1 2:1 (typical)
Beamwidth (average)	Typical curves available on request
Connector	Type N (F) quick change connector
Size (w x h x d)	132.1 x 20.32 x 97.8 cm (52 x 8 x 38.5 in.)
Weight (max.)	7.94 kg (17.5 lb.)

Mounting

May be tripod mounted in two perpendicular planes using optional tripod. Also includes one non-metallic mast for vertical mounting.

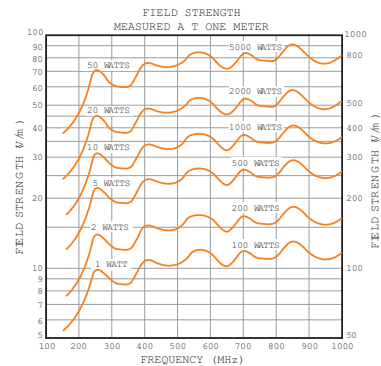
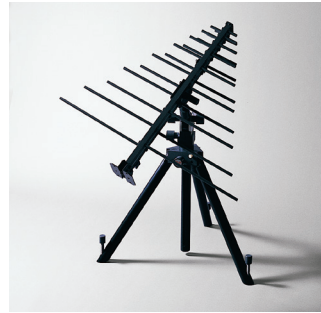


Antennas

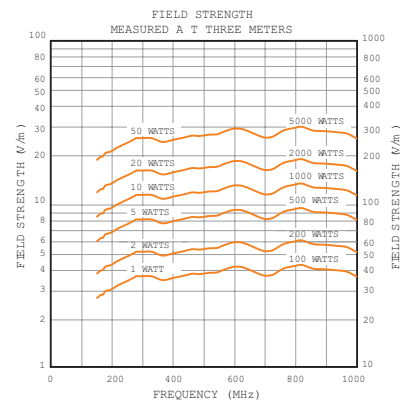
Log-Periodic

ATL150M1G 150 MHz – 1 GHz 5000 W

Frequency range	150 MHz – 1 GHz
Power input (max.)	5000 W
Gain (over isotropic)	6.5 dBi min., 7.5 dBi avg.
Gain flatness	±1 dB
Impedance	50 ohms nominal
VSWR (max.)	1.8:1 (max.) 1.5:1 (average)
Beamwidth (average)	E plane 60° H plane 105°
Front to back ratio (min.)	15 dB
Connector	Type N (F) quick change connector Type C (F) supplied for higher power applications
Size (w x h x d)	102 x 13 x 91 cm (40 x 5.1 x 36 in.)
Weight (max.)	7 kg (15 lb.)
Mounting	May be mounted using the optional TP1000B tripod.

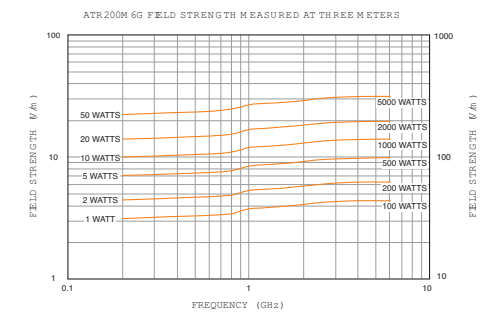
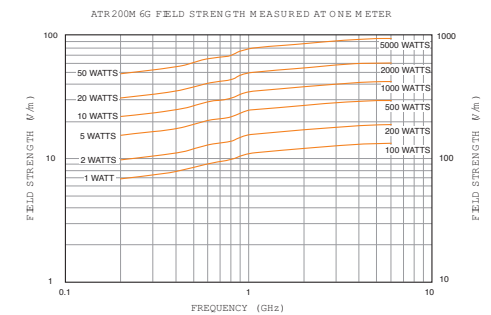


Note: Curves above 1000 and 2000 watts do not appear past power/frequency limits of the antenna.



ATR200M6G 200 MHz – 6 GHz 5000 W

Frequency range	200 MHz – 6 GHz
Power input (max.)	5000 W
Gain (over isotropic)	6 dBi
Gain flatness	±1.5 dB
Impedance	50 ohms nominal
VSWR (max.)	3:12:1 (typical)
Beamwidth (average)	Typical curves available on request
Connector	Type N (F) quick change connector
Size (w x h x d)	82.6 x 17.8 x 57.2 cm (32.5 x 7 x 22.5 in.)
Weight (max.)	5 kg (12 lb.)
Mounting	May be tripod mounted in two perpendicular planes using optional tripod. Also includes one non-metallic mast for vertical mounting.

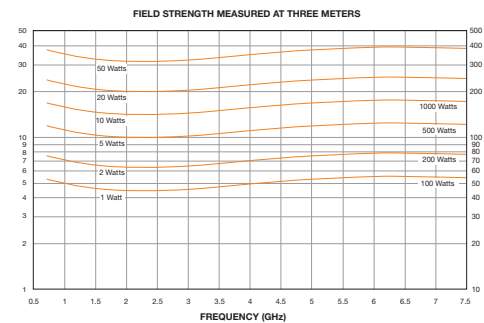
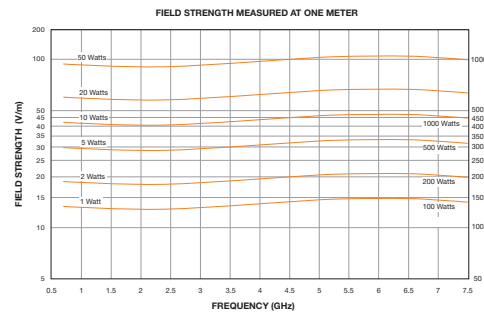


ATT700M8G

700 MHz – 7.5 GHz
1200 W



Frequency range	700 MHz–7.5 GHz
Power input (max.)	1,200 W
Gain (over isotropic)	8 dBi typ.
Impedance	50 ohms nominal
VSWR (max.)	3:1 (max.) 1.7:1 (average)
Beamwidth (average)	E plane 57° H plane 60°
Connector	7–16 DIN (F)
Size (w x h x d)	28 x 28 x 56 cm (11 x 11 x 22 in.)
Weight (max.)	1.8 kg (4 lb.)
Mounting	May be tripod mounted with included mount.

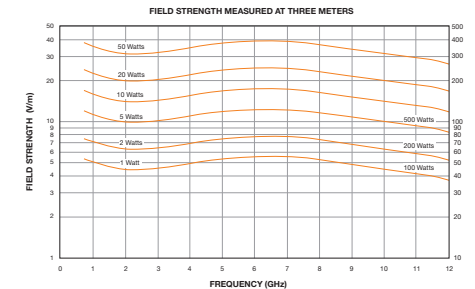
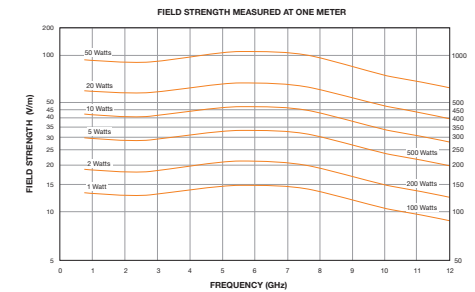


ATT700M12G

700 MHz – 12 GHz
600 W



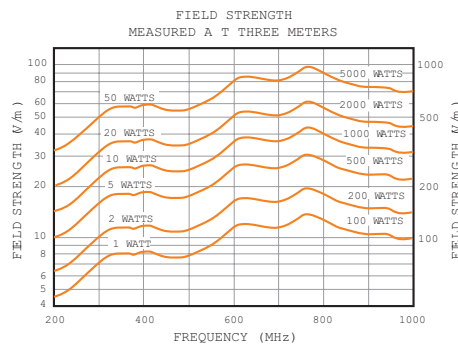
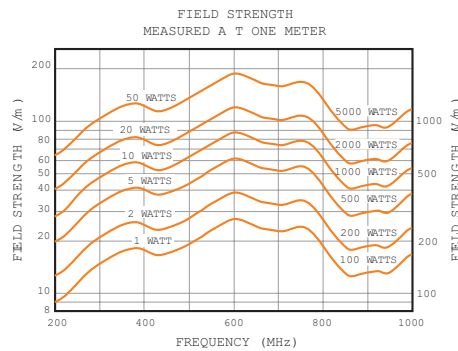
Frequency range	700 MHz – 12 GHz
Power input (max.)	600 W max.
Far Field Gain	8 dBi typ.
Impedance	50 ohms nominal
VSWR (max.)	3:1 (max.) 1.7:1 (average)
3 dB Beamwidth (average)	E plane 57° H plane 60°
Connector	Type N (F)
Size (w x h x d)	28 x 28 x 55 cm (11 x 11 x 21.5 in.)
Weight (max.)	1.7 kg (3 lb., 12 oz)
Mounting	May be tripod mounted with included mount.



ATH200M1G 200 MHz – 1 GHz 5000 W



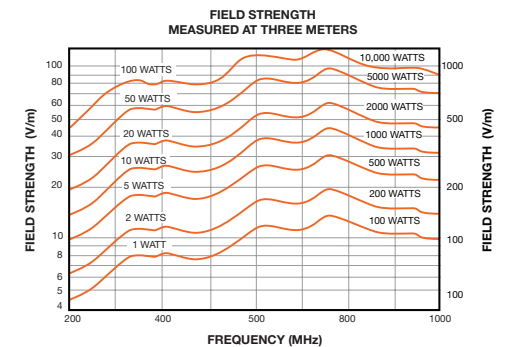
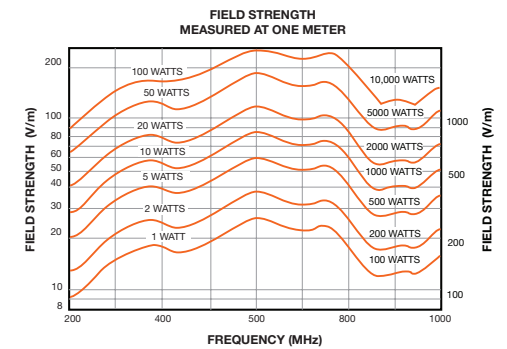
Frequency range	200 MHz – 1 GHz
Power input (max.)	5000 W
Gain (over isotropic)	10 dBi min typically increasing to 18 dBi at 1000 MHz
Impedance	50 ohms nominal
VSWR (max.)	2.5:1 max., 1.5:1 avg.
Beamwidth (average)	Typical curves available on request
Connector	Type 1–5/8 EIA Flange, Quick Change Connector
Size (w x h x d)	109.2 x 145.8 x 175.3 cm (43 x 57 x 69 in.)
Weight (max.)	46 kg (100 lb.)
Mounting	Heavy-duty tripod included. Pads with 3/8–16 thread for stand mounting vertically or horizontally.



ATH200M1G-1 200 MHz – 1 GHz 10000 W



Frequency range	200 MHz–1 GHz
Power input (max.)	10000 W
Gain (over isotropic)	10 dBi min. typically increasing to 18 dBi at 1000 MHz
Impedance	50 ohms nominal
VSWR (max.)	2.5:1 max., 1.5:1 avg.
Beamwidth (average)	Typical curves available on request
Connector	Type 1–5/8 EIA Flange,
Size (w x h x d)	109.2 x 145.8 x 175.3 cm (43 x 57 x 69 in.)
Weight (max.)	46 kg (100 lb.)
Mounting	Heavy-duty tripod is available. Pads with 3/8–16 thread for stand mounting vertically or horizontally.

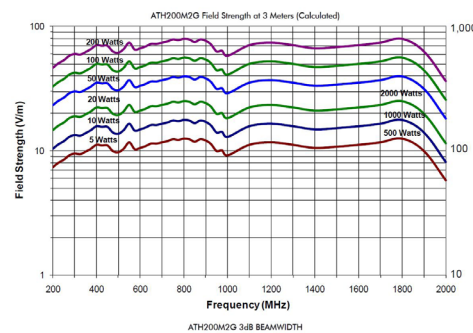
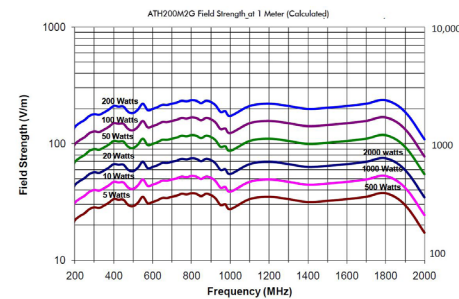


Antennas

Horn

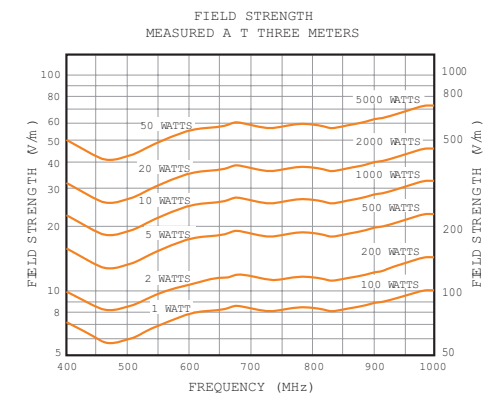
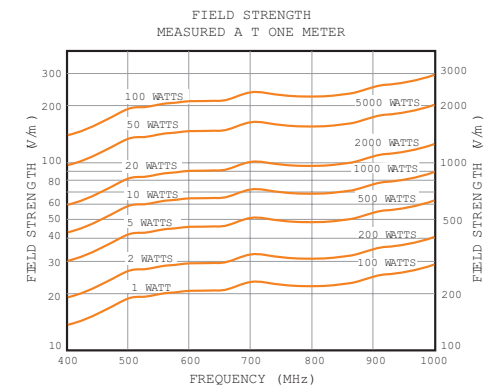
ATH200M2G 200 MHz – 2 GHz 1000 W

Frequency range	200 MHz – 2 GHz
Power input (max.)	1000 W
Gain (over isotropic)	6 dBi typ.
VSWR (typ.)	2:1
Beamwidth (avg.)	(beamwidth graph available on request)
E Plane	
H Plane	
Front To Back Ratio (min.)	20 dBi
Connector	N (f) Precision
Size (w x h x d)	72.9 x 97.8 x 93.2 cm (28.7 x 38.5 x 36.7 in.)
Weight	10.21 kg (22.5 lb.)



ATH400M1G 400 MHz – 1 GHz 4700 W

Frequency range	400 MHz – 1 GHz
Power input (max.)	See graphs in specification
Gain (over isotropic)	10 dBi min. typically increasing to 15 dBi at 1000 MHz
Impedance	50 ohms nominal
VSWR (max.)	2.5:1 max., 1.5:1 avg.
Beamwidth (average)	See curve
Connector	Quick Change block. See Model Configurations.
Size (w x h x d)	56.4 x 79.3 x 73.7 cm (22.2 x 31.2 x 29 in.)
Weight (max.)	9.1 kg (20 lb.)
Mounting	Rear flange for wall mount. Pads with 1/4-20 thread for tripod mount.

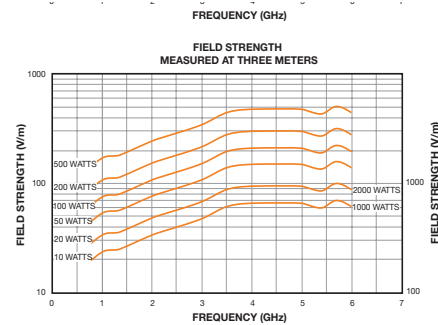
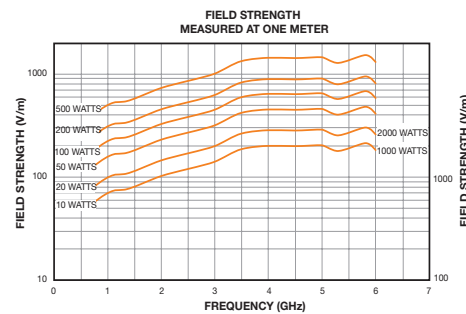


ATH800M6G

800 MHz – 6 GHz
2300 W



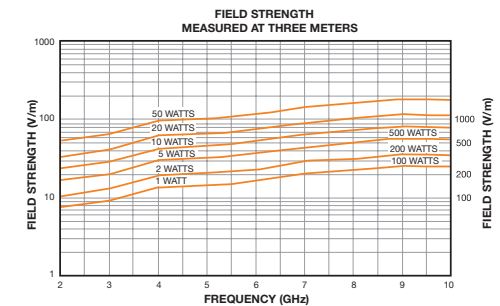
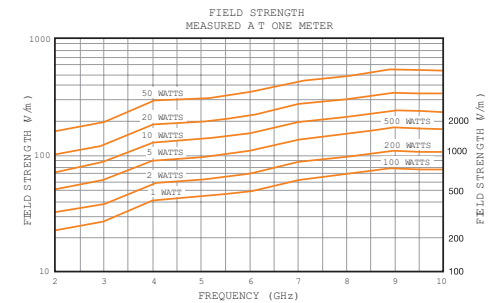
Frequency range	800 MHz–6 GHz
Power input (max.)	2,300 W (connector dependent)
Gain	11 dBi typ., increasing to 22 dBi at 6 GHz
VSWR (max.)	
Max.	2.5:1
Average	1.6:1
Beamwidth (avg.) at 3 dBi down from peak	
E Plane	27.5°
H Plane	25°
Connector	7–16 DIN (F), quick change connector
Size (w x h x d)	46.3 x 46.3 x 69.2 cm (18.25 x 18.25 x 27.25 in.)
Weight (max.)	7.26 kg (16 lb.)



ATH2G10

2 – 10 GHz
700 W

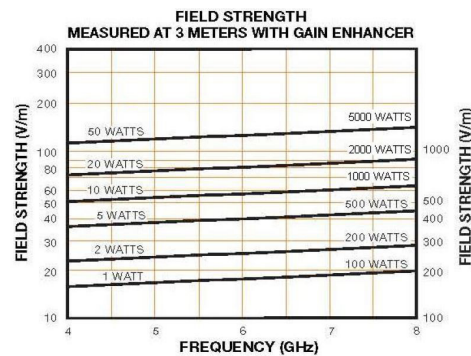
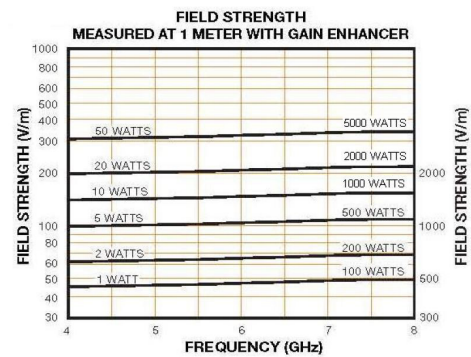
Frequency range	2 – 10 GHz
Power input (max.)	700 W
Gain	12.5 dBi typ., increasing to 23 dBi at 10 GHz
VSWR (max.)	
Max.	2:1
Average	1.5:1
Beamwidth (avg.) at 3 dBi down from peak	
E Plane	25°
H Plane	27°
Connector	N (F)
Size (w x h x d)	22.9 x 17.8 x 31.75 cm (9 x 7 x 12.5 in.)
Weight (max.)	1.59 kg (3.5 lb.)



ATH4G8

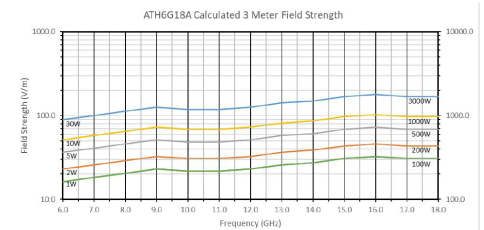
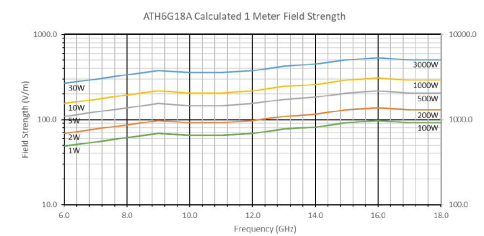
4 – 8 GHz
1200 W

Frequency range	4 – 8 GHz
Power input (max.)	1200 W
Gain	11.5 dBi typ., increasing to 15.9 dBi at 8 GHz 17.8 dBi min., increasing to 21.2 dBi at 8 GHz with gain enhancer
VSWR (max.)	
Max.	1.6:1
Average	1.3:1
Beamwidth (avg.) at 3 dBi down from peak	
E Plane	18° with gain enhancer
H Plane	18° with gain enhancer
Connector	N (F) Quick change connector
Size (w x h x d)	without gain enhancer 7.62 x 10.3 x 15.14 cm (3.0 x 4.06 x 5.96 in.) with gain enhancer: 21.6 x 21.6 x 30.5 cm (8.5 x 8.5 x 12 in.)
Weight (max.)	2.27 kg (5 lb.)

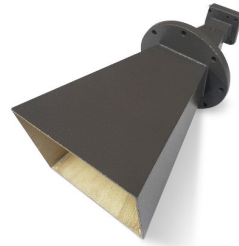
**ATH6G18A**

6 – 18 GHz
3000 W

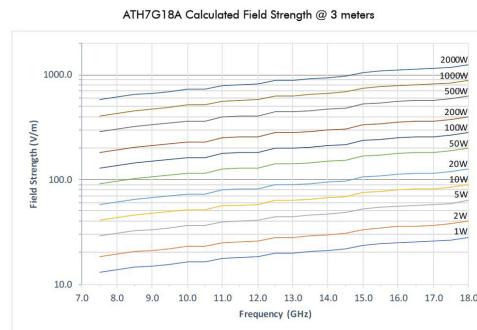
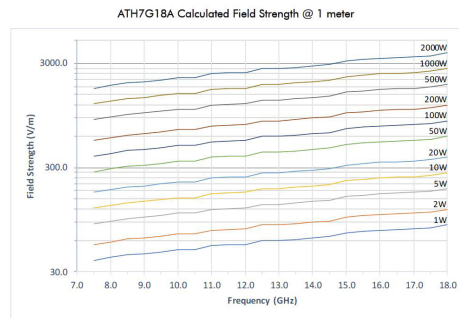
Frequency Range:	6 – 18 GHz
Average Power Input:	3000 W maximum
Peak Power Input:	Consult factory
Far Field Gain (over isotropic):	19–25 dBi (see curve)
VSWR:	1.5:1 Typical
Beam Width (3 dB):	17°–7°, E-Plane (see curve) 18°–9°, H-Plane (see curve)
Connector:	WRD–650 D28 waveguide, cover flange, alternating thru/tapped hole pattern
Weight:	1.13 kg (2.50 lbs)
Size:	19 x 13.8 x 33 cm (7.5 x 5.4 x 13 in)
Mounting Provision:	Tripod mounting bracket with ¼–20 tapped hole
Export Classification:	EAR99



ATH7G18A 7.5 – 18 GHz 2800 W



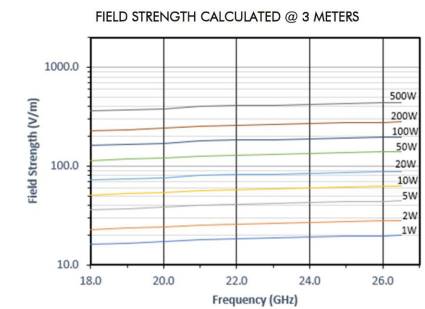
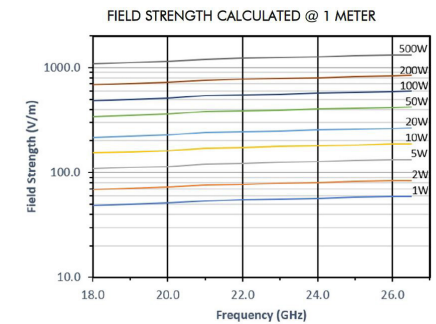
Frequency range	7.5 – 18 GHz
Power input (max.)	2,800 W
Gain	17 dBi typ. increasing to 23.8 dBi at 18 GHz
VSWR (typ.)	1.5:1
Beamwidth (avg.) at 3 dBi down from peak E Plane	see spec. sheet
Connector	WRD-750 waveguide
Size (w x h x d)	9 x 10.8 x 20.6 cm (3.54 x 4.25 x 8.11 in.)
Weight (max.)	0.35 kg (0.77 lb.)



ATH18G27A 18 – 26.5 GHz 350 W



Frequency range	18 – 26.5 GHz
Power input (max.)	350 W CW
Gain	See Graph in Specification
VSWR	Typical 1.25:1
Beamwidth (avg.)	See Graph In Specification
Connector	WR-42 waveguide
Size (w x h x d)	6.43 x 5.03 x 9 cm (2.53 x 1.98 x 3.54 in.)
Weight (max.)	150 g (5.3 oz)



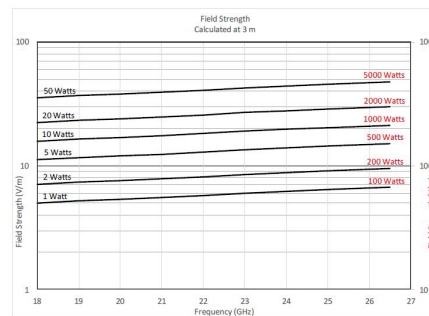
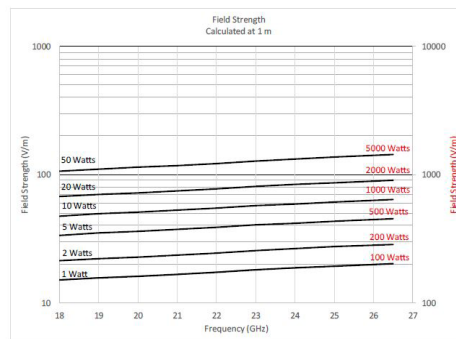
Antennas

Horn

ATH18G27A-1 18 – 26.5 GHz 350 W



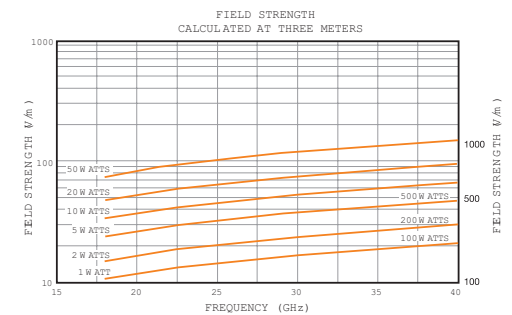
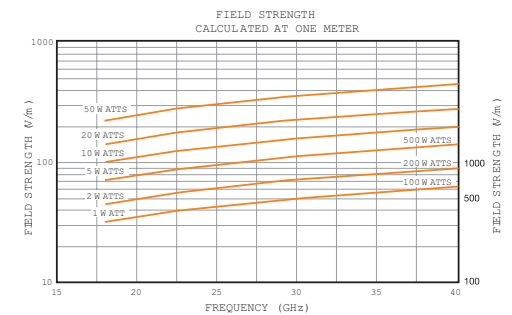
Frequency range	18 – 26.5 GHz
Power input (typ.)	350 W CW
Gain	8.8 dBi typ., increasing to 11.3 dBi at 26.5 GHz.
VSWR (max.)	
Max.	1.4:1
Average	1.2:1
Beamwidth (avg.)	
E Plane	57°
H Plane	55°
Connector	WR-42 waveguide
Size (w x h x d)	2.2 x 2.2 x 3.2 cm (0.88 x 0.88 x 1.25 in.)
Weight (max.)	241 g (8.5 oz)



ATH18G40 18 – 40 GHz 450 W

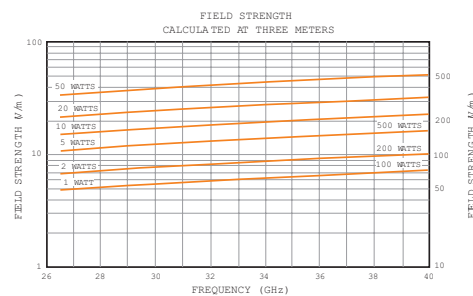
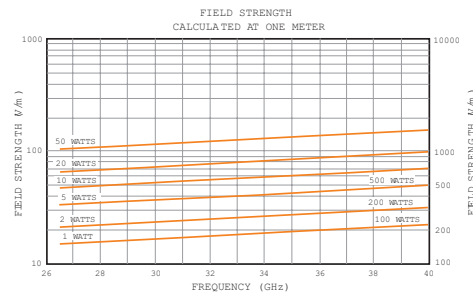


Frequency range	18 – 40 GHz
Power input (max.)	450 W
Gain	See Graph
VSWR (max.)	
Max.	1.5:1
Average	1.3:1
Beamwidth (avg.)	See Graph
Connector	WRD 180 C24 waveguide
Size (w x h x d)	3.73 x 2.69 x 6.27 cm (1.47 x 1.06 x 2.47 in.)
Weight (max.)	56.7 g (2 oz)

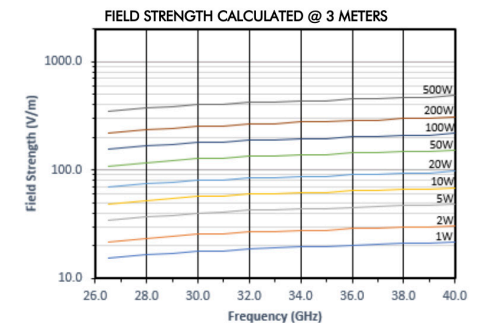
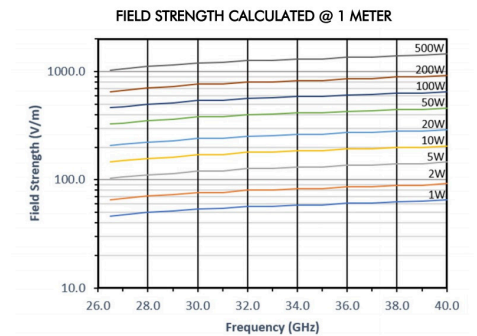


ATH26G40A-1**26.5 – 40 GHz****240 W**

Frequency range	26.5 – 40 GHz
Power input (max.)	240 W
Gain (over isotropic)	9 dBi typ., increasing to 12 dBi at 40 GHz.
VSWR	
Max.	1.3:1
Average	1.2:1
Beamwidth (avg.) at 3 dBi down from peak	
E Plane	57.5°
H Plane	56.5°
Connector	WR-28 waveguide
Size (w x h x d)	1.9 x 1.9 x 2.54 cm (0.75 x 0.75 x 1.0 in.)
Weight	122 g (4.3 oz)

**ATH26G40A****26.5 – 40 GHz****400 W**

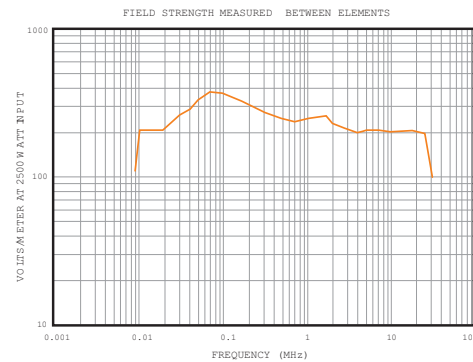
Frequency Range:	26.5 – 40 GHz
Power Input (maximum):	400 watts CW
Power Gain	(over isotropic): See Curve in Specification
VSWR:	Typical 1.25:1
Beamwidth (average):	See Curve in Specification
Connector:	WR-28 waveguide
Mounting Provisions:	Waveguide flange
Weight:	50 g (1.8 oz)
Size (W X H X D):	3.19 X 4.04 X 7 Cm (1.26 X 1.59 X 2.76 In)
Export Classification:	EAR99



ATE10K25M-1 10 kHz – 25 MHz 3000 W



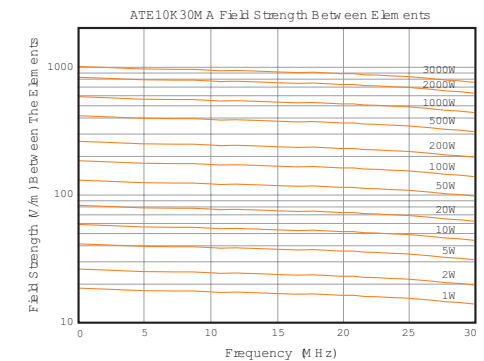
Frequency Range	10 kHz – 25 MHz
Power Input (max)	3000 W CW
Impedance	50 ohms
VSWR	2:1 max., 10 kHz–20 MHz 3.5:1 max., 20 MHz–25 MHz
Electric Field Intensity	200 volts/meter
Connector*	Type C (F)
Size (W x H x D)	303.53 x 222.25 x 101.8 cm (119.5 x 87.5 x 40 in.)
Weight (max.)	113 kg (250 lb.)



ATE10K30MA 10 kHz – 30 MHz 1000 W

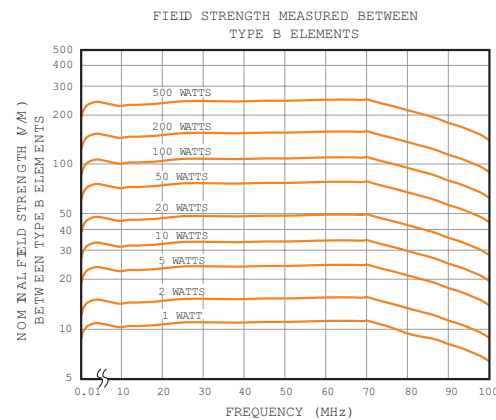
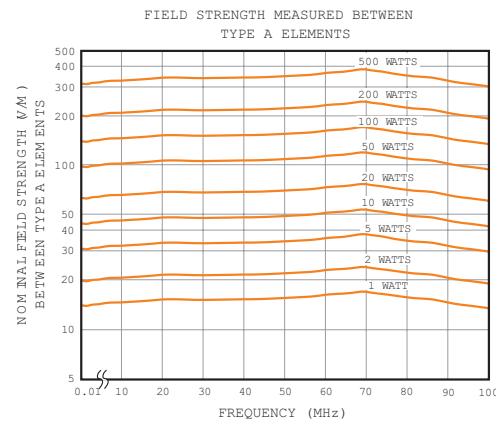


Frequency range	10 kHz – 30 MHz
Power Input (max)	without cooling option* 1000 W continuous with forced-air cooling option* 3000 W, 50% duty cycle
VSWR	10 kHz–15 MHz 2:1 Max 15 MHz–22 MHz 3:1 Max 22 MHz–30 MHz 5:1 Max
Electric Field Intensity	See graph.
Mounting Provisions	UNC ¼–20 tripod thread on 2 sides (optional tripod available)
Size	188 x 72 x 7 cm (74 x 28.3 x 2.5 in.) (field-generating elements are removable for storage and transportation)
Weight	without cooling option 17 kg (38 lb.) with forced-air cooling 21 kg (46 lb.)
Connector	Type C(F) Quick Change



ATE10K100M 10 kHz – 100 MHz 500 W

Frequency range	10 kHz – 100 MHz
Power input	500 W max.
Input Impedance	50 ohms nominal
VSWR	2.5:1 max., 1.4:1 typical
Electric field intensity	See graphs.
Field Intensity	
between Type A elements	nominally 350 V/m with 500 W input
between Type B elements	nominally 200 V/m with 500 W input
Max. Test Object Volume	
between Type A elements	36 x 46 x 36 cm (14 x 18 x 14 in.)
between Type B elements	48 x 46 x 36 cm (19 x 18 x 14 in.)
Connector*	Type N (F)
Size	
with Type A elements	74 x 41 x 102 cm (29 x 16 x 40 in.)
with Type B elements	104 x 41 x 102 cm (41 x 16 x 40 in.)
Weight (max.)	13 kg (28 lb.)
Mounting	Accepts tripod threaded 1/4 x 20 stud on three faces (optional tripod available)



ATP10K100M 10 kHz – 100 MHz 3000 W

Frequency range	10 kHz – 100 MHz
Power input (max)	3000 W CW
Input impedance	50 ohms
VSWR	2:1 max. 10 kHz–100 MHz 6:1 max. 10–20 kHz above 1 kW input power
Electric field intensity	See Figure
Connector	See Specification for Model Configurations
Natural convection to 40°C ambient temperature	
Weight	95 kg (210 lb.)
Size (W x H x D)	265 x 240 x 120 cm (105 x 96 x 49 in)

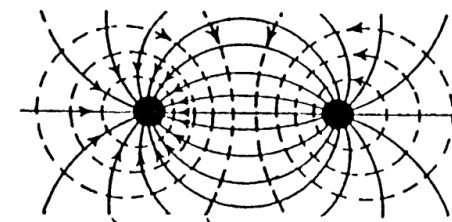
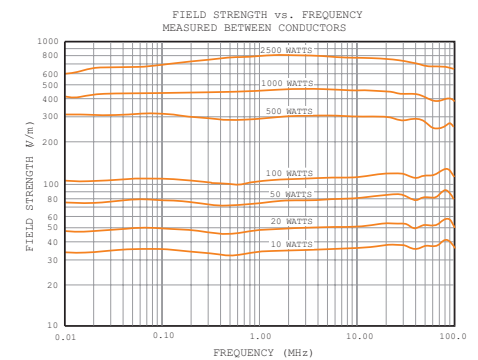
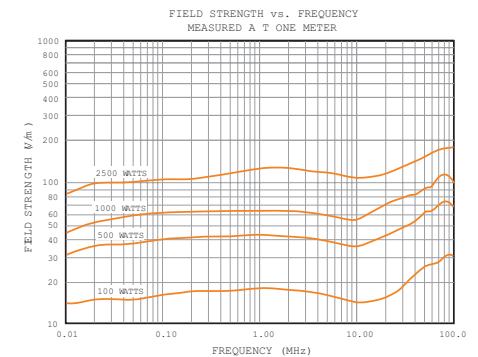
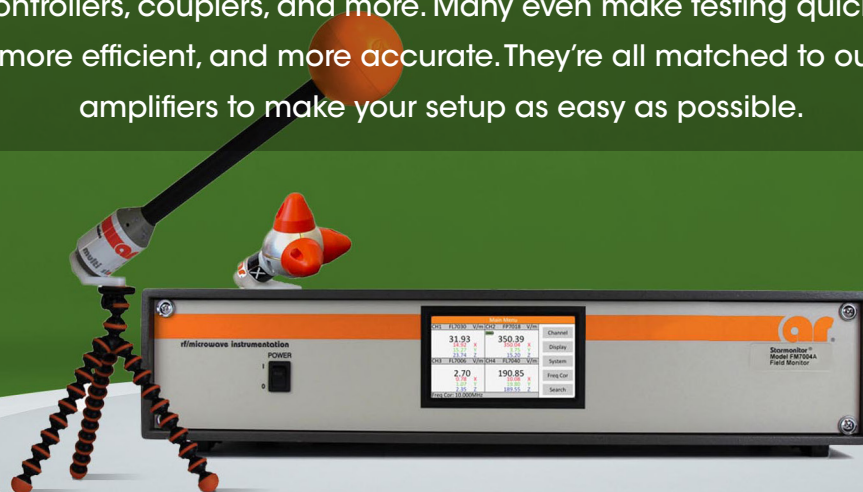


Fig. 1 E and H Field Pattern



Accessories

AR offers a complete selection of test accessories that give you the most reliable results, such as probes, software, system controllers, couplers, and more. Many even make testing quicker, more efficient, and more accurate. They're all matched to our amplifiers to make your setup as easy as possible.



FL8000 Probes and FM7004A

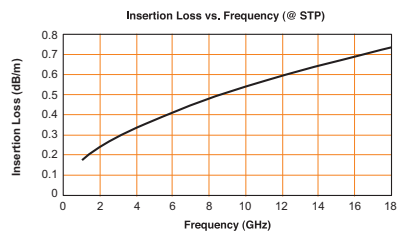
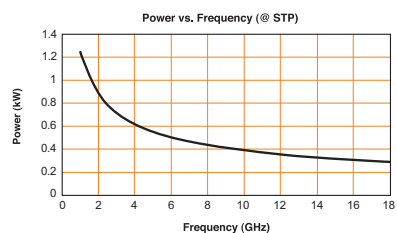


Accessories

Coaxial Cables

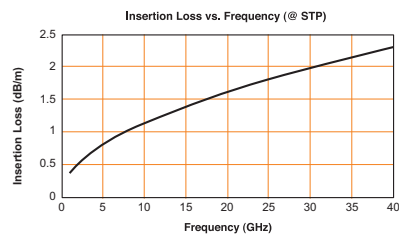
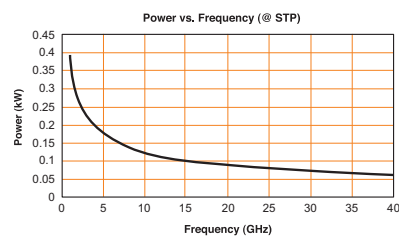
CC1

Armored low-loss microwave cables for applications with frequencies less than 18 GHz, VSWR typically less than 1.35:1



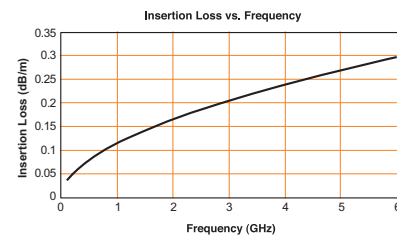
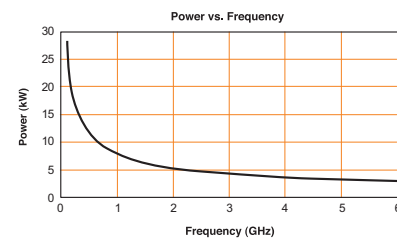
CC2

Armored low-loss microwave cables for applications with frequencies less than 40 GHz. VSWR is typically less than 1.45:1



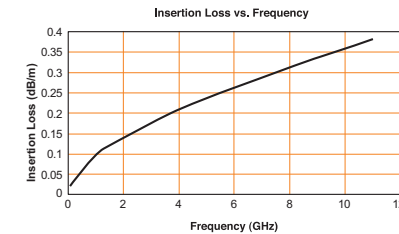
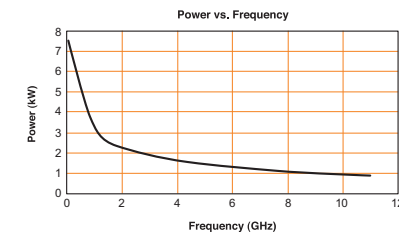
CC4

Recommended for AR's high power "A," "W," and "S" series amplifiers or other applications with frequencies less than 6 GHz. VSWR is typically less than 1.25:1.



CC5

Low-loss microwave cables designed for higher power applications with frequencies up to 11 GHz. VSWR typically less than 1.25:1.



Accessories

Dual Directional Couplers and Termination Loads for RF Amplifiers

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator
Universal Series Amplifiers		
1U1000	DC3010A	LA100
2.5U1000	DC3010A	LA100
5U1000	DC3010A	LA100
10U1000	DC3010A	LA100
25U1000	DC3010A	LA100
50U1000	DC3010A	LA100
100U1000A	DC3100A	LA150
250U1000A	DC3100A	LA500
500U1000	Call Factory	
RF Solid State Amplifiers		
100A400AM20	DC3300A	LA150
150A100D	DC3400A	LA250
1200A225B	DC2500AM2	LA4000
2500A225C	DC2035A	LA4000
5000A225C	DC4255	
10000A225B	DC4256	
25A250B	DC3010A	LA100
50A250	DC2600A	LA100
125A250	DC2600A	LA150
500A250D	DC2500AM1	LA1000
100A400A	DC3400A	LA150
175A400	DC3401A	LA250
250A400	DC3401A	LA500
350A400	DC3401A	LA500
600A400	DC3410A	LA1000
1000A400	DC3410A	LA4000
50W1000D	DC3001A	LA100
125W1000A	DC6080A	
150W1000B	DC6080A	LA250
250W1000C	DC6180A	LA500

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator
800W1000	DC6280AM1	
500W1000C	DC6180A	LA1000
1000W1000H	DC6280AM1	LA4000
2000W1000E	DC6380	LA4000
3000W1000B	DC6380M1	LA4000
4000W1000B	DC6380M2	LA4000
6000W1000	DC6430	
10000W1000A	DC6440	
Microwave Amplifiers		
15S1G6	DC7205A	LA100
30S1G6C	DC7205A	LA100
30S1G6	DC7205A	
60S1G6	DC7205A	
125S1G6	DC7205A	
250S1G6	DC7230A	
500S1G6A	DC7215A	
750S1G6C	DC7240A	
1000S1G6C	Call Factory	
2000S1G2z8	DC7128AM6	
75S1G6C	DC7205A	LA100
125S1G6C	DC7205A	LA150
250S1G6C	DC7210A	
350S1G6A	DC7210A	
500S1G6C	DC7215A	
125S1G2z5	DC7144A	LA150
250S1G2z5B	DC7144A	LA500
500S1G2z5A	DC7154AM1	LA1000
1000S1G2z5B	DC7164M1	
20S6G18C	DC7435AM1	LA100
40S6G18C	DC7435AM1	LA100
75S6G18C	DC7435AM1	

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator
125S6G18C	DC7445	
250S6G18C	DC7445	
Solid State Pulsed Amplifiers		
2000SP0z8G2z5	DC7154A	
12000SP1z2G1z4	DC7128A	
9000SP1z2G1z4	DC7128A	
6000SP1z2G1z4	DC7128A	
18000SP1z2G1z4	Call Factory	
1000SP0z8G2z5	DC7154A	
4000SP0z8G2z5	DC7154A	
8000SP0z8G2z5	DC7128A	
1300SP1G2	DC7154A	
2000SP1G2	DC7154A	
4000SP1G2	DC7128A	
8000SP1G2	DC7128A	
4000SP1z2G1z4	DC7128A	
1500/1000SP1z2G3z1	DC7154A	
1000SP2G4	DC7154A	
2000SP2G4	DC7154A	
5000SP2G4	DC7154AM1	
7000SP2G4	DC7154AM1	
10000SP2G4	DC7154AM1	
4000SP2z7G3z1	Call Factory	
12000SP2z7G3z1	Call Factory	
8000SP2z7G3z1	Call Factory	
TWT Amplifiers		
300T2G8	DC7281A	LR2000M1
500T2G8	DC7281A	LR2000M1
1000T2G8B	DC7276M1	LR2000M1
1500T2G8A	DC7276M1	LR2000M1

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator
200T4G8	DC7281A	
250T6G18	DC7445	
250T8G18	DC7450M1	LR1500M1
500T8G18	DC7450M1	LR1500M1
1000T8G18B	DC7450M1	LR1500M1
1500T8G18	DC7450M1	LR1500M1
40T18G26A	DC7530	
130T18G26z5B	DC7530	
200T18G26z5A	DC7530	
40T26G40A	DC7620	
130T26z5G40B	DC7620	
500T6G18	DC7445	
200T26z5G40A	DC7620	
70T40G50	DC7820	
100T40G50	DC7820	
1000TP8G18	DC7450M1	LR1500M1
2000TP2G8B	DC7281A	LR2000M1
2000TP8G18	DC7450M1	
4000TP2G4	DC7281A	LA500
4000TP4G8	DC7351	
4000TP8G12	DC7490	
20000TP8G12	DC7490	
3000TP12G18	DC7462	
5700TP12G18	DC7462	
6900TP2G4	DC7154AM1	
7400TP4G8	DC7351	
8000TP2z7G3z1	DC7154AM1	
8300TP8G12	DC7490	



Accessories

Dual Directional Couplers

DC3300A

4 kHz – 400 MHz
250 W



Frequency Range	4 kHz – 400 MHz
Power (max. W)	250 CW
Flatness (max.)	± 1.5 dB (4 – 10 kHz) $\pm .75$ dB (0.01 – 400 MHz)
Coupling Factor (includes flatness)	50 ± 1.5 dB (4 – 10 kHz) 50 ± 1 dB (0.01 – 400 MHz)
Directivity	
typical	20 dB
minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.36 kg 0.8 lb.
Size (approx.) W x H x D	19.3 x 5.1 x 5.6 cm (7.6 x 2 x 2.2 in.)

DC3510A

9 kHz – 1000 MHz
200 W



Frequency Range	9 kHz – 1000 MHz
Power (max. W)	200 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	40 ± 0.8 dB
Directivity	
typical	25 dB
minimum	20 dB (0.01 – 1000 MHz) 15 dB (0.009 – 0.01 MHz)
Insertion Loss (max.)	0.5 dB
VSWR (main line)	1.3:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.36 kg 3 lb.
Size (approx.) W x H x D	15.7 x 5.8 x 4.3 cm (6.2 x 2.28 x 1.69 in.)

DC2500AM1

10 kHz – 250 MHz
1000 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	1000 CW
Flatness (max.)	± 0.9 dB
Coupling Factor (includes flatness)	50 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB (20 kHz–250 MHz) 18 dB (10 kHz–20 kHz)
Insertion Loss (max.)	0.22 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.13 kg 2.5 lb.
Size (approx.) W x H x D	26.6 x 8.1 x 7.6 cm (10.1 x 3.2 x 3 in.)

DC2035A

10 kHz – 250 MHz
3500 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	3,500 CW
Flatness (max.)	± 0.9 dB
Coupling Factor (includes flatness)	50 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.30 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	7–16(M)/7–16(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.8 kg 4 lb.
Size (approx.) W x H x D	25.4 x 8.9 x 11.7 cm (10 x 3.5 x 4.6 in.)



Accessories

Dual Directional Couplers

DC4255*

10 kHz – 250 MHz
10000 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	10000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.20:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges 1 5/8 in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	7 kg 15.5 lb.
Size (approx.) W x H x D	15.2 x 11.4 x 30.48 cm (6 x 4.5 x 12 in.)

*Power required for fan cooling."

DC4256*

10 kHz – 250 MHz
13000 W

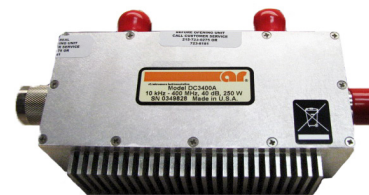


Frequency Range	10 kHz – 250 MHz
Power (max. W)	13000 CW
Flatness (max.)	±1 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.20:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges 1 5/8 in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	7 kg 15.5 lb.
Size (approx.) W x H x D	15.24 x 11.43 x 32.38 cm (6 x 4.5 x 12.75 in.)

*Power required for fan cooling."

DC3400A

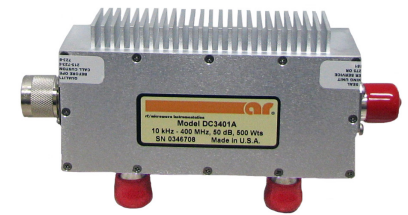
10 kHz – 400 MHz
250 W



Frequency Range	10 kHz – 400 MHz
Power (max. W)	250 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	40 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.5 dB
VSWR (main line)	1.3:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.8 kg 1.8 lb.
Size (approx.) W x H x D	13.2 x 6.8 x 4.1 cm (5.2 x 2.7 x 1.6 in.)

DC3401A

10 kHz – 400 MHz
500 W



Frequency Range	10 kHz – 400 MHz
Power (max. W)	500 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	50 dB ±0.8 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.5 dB
VSWR (main line)	1.30:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.8 kg 1.8 lb.
Size (approx.) W x H x D	13.2 x 6.8 x 4.32 cm (5.2 x 2.7 x 1.7 in.)



Accessories

Dual Directional Couplers

DC3410A 10 kHz – 400 MHz 2000 W



Frequency Range	10 kHz - 400 MHz
Power (max. W)	2000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	50 dB ± 1 dB
Directivity minimum	20 dB
Insertion Loss (max.)	0.15 dB max.
VSWR (main line)	1.2:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7 - 16 (M)/7 - 16 (F) N(F)/N(F)
Weight (max.)	1.25 kg 2.75 lb.
Size (approx.) W x H x D	18.3 x 5.6 x 6.9 cm (7.2 x 2.2 x 2.71 in)

DC3010A 10 kHz – 1000 MHz 100 W



Frequency Range	10 kHz – 1000 MHz
Power (max. W)	100 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	40 ± 0.8 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.6 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.9 kg 2 lb.
Size (approx.) W x H x D	12.7 x 5.1 x 3.8 cm (5 x 2 x 1.5 in.)

DC3100A 10 kHz – 1000 MHz 500 W



Frequency Range	10 kHz – 1000 MHz
Power (max. W)	500 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	40 ± 1.5 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.45 dB
VSWR (main line)	1.30:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	1.1 kg 2.5 lb.
Size (approx.) W x H x D	17 x 5.8 x 4.3 cm (6.7 x 2.27 x 1.69 in.)

DC3001A 100 kHz – 1000 MHz 100 W



Frequency Range	100 kHz – 1000 MHz
Power (max. W)	100 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	40 ± 0.8 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.6 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.39 kg 0.86 lb.
Size (approx.) W x H x D	12.7 x 5.1 x 3.8 cm (5 x 2 x 1.5 in)



Accessories

Dual Directional Couplers

DC6080A 80 – 1000 MHz 500 W



Frequency Range	80 – 1000 MHz
Power (max. W)	500 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	40 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.25 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.45 kg 1 lb.
Size (approx.) W x H x D	7.62 x 7.62 x 2.77 cm (3 x 3 x 1.09 in.)

DC6180A 80 – 1000 MHz 600 W



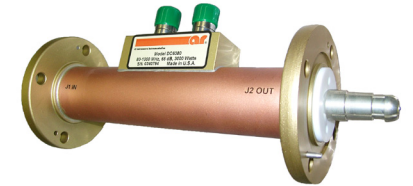
Frequency Range	80 – 1000 MHz
Power (max. W)	600 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.15:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.6 kg 1.2 lb.
Size (approx.) W x H x D	10.9 x 6.3 x 3.2 cm (4.3 x 2.5 x 1.3 in.)

DC6280AM1 80 – 1000 MHz 1500 W



Frequency Range	80 – 1000 MHz
Power (max. W)	1,500 CW
Flatness (max.)	±0.5 dB
Coupling Factor (includes flatness)	63 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	7-16(M)/7-16(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.6 kg 1.2 lb.
Size (approx.) W x H x D	10.9 x 6.3 x 3.2 cm (4.3 x 2.5 x 1.3 in.)

DC6380 80 – 1000 MHz 3000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	3000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	65 dB ± 1.5 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges 1 5/8 in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.8 kg 4 lb.
Size (approx.) W x H x D	20.3 x 8.9 x 10.2 cm (8 x 3.5 x 4 in.)



Accessories

Dual Directional Couplers

DC6380M1 80 – 1000 MHz 4500 W



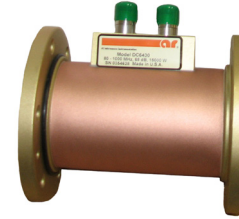
Frequency Range	80 – 1000 MHz
Power (max. W)	4500 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	68 ± 1.5 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges 1 5/8 in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.8 kg 4 lb.
Size (approx.) W x H x D	20.3 x 8.9 x 10.2 cm (8 x 3.5 x 4 in.)

DC6380M2 80 – 1000 MHz 7000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	7000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	70 ± 1.5 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges 1 5/8 in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.8 kg 4 lb.
Size (approx.) W x H x D	20.3 x 8.9 x 10.2 cm (8 x 3.5 x 4 in.)

DC6430 80 – 1000 MHz 15000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	15000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	68 dB ± 1 dB
Directivity	
typical	20 dB
minimum	18 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.15:1 max.
Connectors	
main line (J1/J2)	EIA fixed/swivel 3 7/8 in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	3 kg 6.6 lb.
Size (approx.) W x H x D	15.2 x 13.2 cm (6 x 5.2 in.)

DC6440 80 – 1000 MHz 15000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	15000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	70 dB ± 1 dB
Directivity	
typical	20 dB
minimum	18 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.10:1 max.
Connectors	
main line (J1/J2)	EIA fixed/swivel 4 1/16 in. EIA (m)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	3.5 kg 7.7 lb.
Size (approx.) W x H x D	15.2 x 15.8 cm (6 x 6.2 in.)



Accessories

Dual Directional Couplers

DC7144A 0.7 – 4.2 GHz 400 W



Frequency Range	0.7 – 4.2 GHz
Power (max. W)	400 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	40 ± 1.3 dB
Directivity	
typical	19 dB
minimum	15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.24 kg 0.525 lb.
Size (approx.) W x H x D	2.35 x 5.84 x 19 cm (0.925 x 2.3 x 7.48 in.)

DC7154A 0.7 – 4.2 GHz 400 W



Frequency Range	0.7 – 4.2 GHz
Power (max. W)	400 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	50 ± 1.3 dB
Directivity	
typical	19 dB
minimum	15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.29 kg 0.64 lb.
Size (approx.) W x H x D	3.2 x 6.3 x 10.9 cm (1.3 x 2.5 x 4.3 in.)

DC7154AM1 0.7 – 4.2 GHz 700 W



Frequency Range	0.7 – 4.2 GHz
Power (max. W)	700 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	50 ± 1.3 dB
Directivity	
typical	19 dB
minimum	15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors	
main line (J1/J2)	7–16(M)/7–16(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.29 kg 0.64 lb.
Size (approx.) W x H x D	3.2 x 6.3 x 10.9 cm (1.3 x 2.5 x 4.3 in.)

DC7205A 0.7 – 6 GHz 250 W



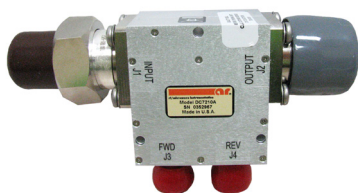
Frequency Range	0.7 – 6GHz
Power (max. W)	250 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	41 ± 1.2 dB
Directivity	
typical	18 dB
minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	6.8 x 5.1 x 3.05 cm (2.7 x 2 x 1.2 in.)



Accessories

Dual Directional Couplers

DC7210A 0.7 – 6 GHz 500 W



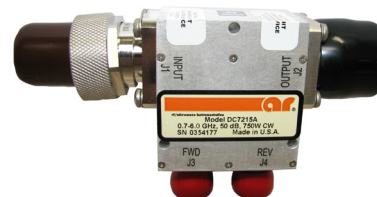
Frequency Range	0.7 – 6 GHz
Power (max. W)	500 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	50 ± 1.2 dB
Directivity minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.35:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	54.6 x 50.8 x 34.5 mm (2.15 x 2 x 1.36 in.)

DC7230A 0.7 – 6 GHz 500 W



Frequency Range	0.7 – 6GHz
Power (max. W)	500 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	48 ± 1.5 dB
Directivity typical minimum	20 dB 15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.35:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	5.1 x 5.1 x 2.7 cm (2 x 2 x 1.06 in.)

DC7215A 0.7 – 6 GHz 750 W



Frequency Range	0.7 – 6 GHz
Power (max. W)	750 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	50 dB ± 1.5 dB
Directivity typical minimum	18 dB 15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.45:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	5.5 x 5.1 x 3.5 cm (2.15 x 2 x 1.36 in.)

DC7128A 0.8 – 2.8 GHz 1500 W



Frequency Range	0.8 – 2.8 GHz
Power (max. W)	1500 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	50 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.7 kg 1.5 lb.
Size (approx.) W x H x D	7.6 x 7.6 x 2.9 cm (3 x 3 x 1.125 in.)



Accessories

Dual Directional Couplers

DC7164M1 0.8 – 4.2 GHz 1400 W



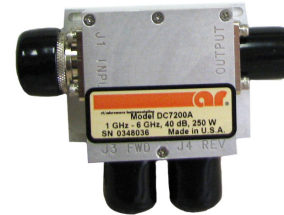
Frequency Range	0.8 – 4.2 GHz
Power (max. W)	1400 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	65 ± 1 dB
Directivity	
typical	19 dB
minimum	15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors	
main line (J1/J2)	7/8 EIA
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.91 kg 2 lb.
Size (approx.) W x H x D	5.71 x 8.25 x 15.25 cm (2.25 x 3.25 x 6 in.)

DC7164 0.8 – 4.2 GHz 700 W



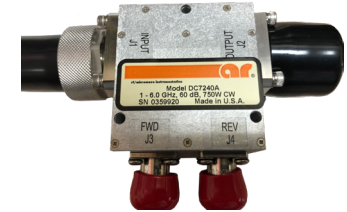
Frequency Range	0.8 – 4.2 GHz
Power (max. W)	700 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity	
typical	19 dB
minimum	15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors	
main line (J1/J2)	7/8 EIA
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.91 kg 2 lb.
Size (approx.) W x H x D	5.71 x 8.25 x 15.25 cm (2.25 x 3.25 x 6 in.)

DC7200A 1 – 6 GHz 250 W



Frequency Range	1 – 6 GHz
Power (max. W)	250 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	40 ± 1.2 dB
Directivity	
typical	18 dB
minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.2:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	6.8 x 5.1 x 3.05 cm (2.7 x 2 x 1.2 in.)

DC7240A 1 – 6 GHz 1200 W



Frequency Range	1 – 6 GHz
Power (max. W)	
1 - 5 GHz	1200 CW
5 - 6 GHz	800 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	60 ± 1.0 dB
Directivity	
minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.45:1 max.
Connectors	
main line (J1/J2)	7-16(M)/7-16(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	5.46 x 5.08 x 3.45 cm (2.15 x 2.0 x 1.36 in.)



Accessories

Dual Directional Couplers

DC7276M1 2.5 – 7.5 GHz 2800 W



Frequency Range	2.5 – 7.5 GHz
Power (max. W)	2800 CW
Flatness (max.)	± 2.5 dB
Coupling Factor (includes flatness)	50 ± 3 dB
Directivity	
typical	28 dB
minimum	25 dB
Insertion Loss (max.)	0.3 dB
VSWR (main line)	1.1:1 max.
Connectors	
main line (J1/J2)	WRD-250
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.7 kg 3.8 lb.
Size (approx.) W x H x D	45.7 x 8.1 x 8.1 cm (18 x 3.2 x 3.2 in.)

DC7281A 2 – 8 GHz 600 W



Frequency Range	2 – 8 GHz
Power (max. W)	600 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	50 dB ± 2 dB
Directivity	
minimum	15 dB
Insertion Loss (max.)	0.6 dB max.
VSWR (main line)	1.40:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.25 kg 0.55 lb.
Size (approx.) W x H x D	9.78 x 3.07 x 2.03 cm (3.85 x 1.20 x 0.80 in.)

DC7351 4 – 8 GHz 6000 W



Frequency Range	4 – 8 GHz
Power (max. W)	6000 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity	
typical	35 dB
minimum	30 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.1:1 max.
Connectors	
main line (J1/J2)	WRD-350
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.24 kg 2.75 lb.
Size (approx.) W x H x D	45.8 x 4.1 x 6.9 cm (18 x 1.61 x 2.72 in.)

DC7435A 4 – 18 GHz 200 W



Frequency Range	4 – 18 GHz
Power (max. W)	200 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	35 ± 2.5 dB
Directivity	
typical	16 dB
minimum	10 dB
Insertion Loss (max.)	0.6 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	SMA(F)/SMA(F)
Weight (max.)	0.34 kg 0.85 lb.
Size (approx.) W x H x D	9.47 x 2.54 x 4.78 cm (3.73 x 1.0 x 1.88 in.)



DC7445

6 – 18 GHz
3000 W



Frequency Range	6 – 18 GHz
Power (max. W)	3000 CW
Flatness (max.)	± 3 dB
Coupling Factor (includes flatness)	48 dB ± 4 dB
Directivity	
typical	30 dB
minimum	20 dB
Insertion Loss (max.)	0.3 dB max.
VSWR (main line)	1.3:1 max.
Connectors	
main line (J1/J2)	WRD-650
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.64 kg 1.4 lb.
Size (approx.) W x H x D	30.5 x 2.9 x 3.5 cm (12 x 1.13 x 1.4 in.)

DC7450M1

7.5 – 18 GHz
3000 W



Frequency Range	7.5 – 18 GHz
Power (max. W)	3000 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	50 ± 2 dB
Directivity	
typical	28 dB
minimum	25 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.1:1 max.
Connectors	
main line (J1/J2)	WRD-750 D24
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.64 kg 1.42 lb.
Size (approx.) W x H x D	30.5 x 3.5 x 4.4 cm (12 x 1.4 x 1.7 in.)

DC7490

8 – 12 GHz
3000 W



Frequency Range	8 – 12 GHz
Power (max. W)	3000 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity	
typical	40 dB
minimum	35 dB
Insertion Loss (max.)	0.14 dB
VSWR (main line)	1.1:1 max.
Connectors	
main line (J1/J2)	WR90
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.45 kg 1 lb.
Size (approx.) W x H x D	33 x 2.54 x 8.43 cm (13 x 1 x 3.32 in.)

DC7462

12 – 18 GHz
1400 W



Frequency Range	12 – 18 GHz
Power (max. W)	1400 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity	
typical	30 dB
minimum	25 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.1:1 max.
Connectors	
main line (J1/J2)	WR62
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.17 kg 0.38 lb.
Size (approx.) W x H x D	28 x 1.8 x 7.6 cm (11 x 0.7 x 3 in.)

Accessories

Dual Directional Couplers

DC7530

18 – 26.5 GHz
300 W



Frequency Range	18 – 26.5 GHz
Power (max. W)	300 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	40 dB ± 2 dB
Directivity	
typical	40 dB
minimum	30 dB
Insertion Loss (max.)	0.20 dB max.
VSWR (main line)	1.10:1 max.
Connectors	
main line (J1/J2)	WR42
coupled (J3/J4)	K(F)/K(F)
Weight (max.)	204 g 7.2 oz.
Size (approx.) W x H x D	22.9 x 2.2 x 3.5 cm (9 x 0.88 x 1.4 in.)

DC7620

26.5 – 40 GHz
200 W



Frequency Range	26.5 – 40 GHz
Power (max. W)	200 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity	
typical	28 dB
minimum	23 dB
Insertion Loss (max.)	0.26 dB max.
VSWR (main line)	1.15:1 max.
Connectors	
main line (J1/J2)	WR28
coupled (J3/J4)	K(F)/K(F)
Weight (max.)	113 g 4 oz.
Size (approx.) W x H x D	14 x 3.5 x 1.9 cm (5.5 x 1.4 x 0.75 in.)

DC7820

33 – 50 GHz
200 W



Frequency Range	33 – 50 GHz
Power (max. W)	200 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity	
typical	32 dB
minimum	30 dB
Insertion Loss (max.)	0.15 dB max.
VSWR (main line)	1.10:1 max.
Connectors	
main line (J1/J2)	WR-22
coupled (J3/J4)	2.4 mm (F) / 2.4 mm (F)
Weight (max.)	453 g 1 lb.
Size (approx.) W x H x D	15.24 x 3.3 x 3.3 cm (6 x 1.3 x 1.3 in.)



LA100



Frequency Range	DC – 18 GHz
Power (max.)	100 W continuous to 25°C
Attenuation	40 dB, ± 1.0 dB
Input VSWR (max.)	1.25:1 (DC – 8 GHz) 1.35:1 (8 - 12.4 GHz) 1.45:1 (12.4 - 18 GHz)
Connectors	
Input	N(M)
Output	N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	320 g 11 OZ
Size (approx.) W x H x D	21.8 x 4.2 x 4.2 cm (8.6 x 1.62 x 1.62 in.)

LA150



Frequency Range	DC – 6 GHz
Power (max.)	150 W continuous to 25°C
Attenuation	40 dB, ± 2.0 dB
Input VSWR (max.)	1.1:1 (DC – 2 GHz) 1.2:1 (2 – 6 GHz)
Output VSWR (max.)	1.20:1
Connectors	
Input	N(M)
Output	N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	1.13 kg 2.5 lb.
Size (approx.) W x H x D	80 x 80 x 137.1 mm (3.15 x 3.15 x 5.4 in.)

LA500



Frequency Range	DC – 5 GHz
Power (max.)	500 W continuous to 25°C
Attenuation	40 dB ± 1.0 dB (DC – 2.5 GHz) 40 dB $\pm 0.5/3$ dB (2.5 - 5 GHz)
Input VSWR (max.)	1.15:1 (DC – 2.5 GHz) 1.35:1 (2.5 – 5 GHz)
Output VSWR (max.)	1.15:1 (DC – 2.5 GHz) 1.25:1 (2.5 – 5 GHz)
Connectors	
Input	N(M)
Output	N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	3.63 kg 8 lb.
Size (approx.) W x H x D	138.7 x 109.5 x 259.6 mm (5.46 x 4.31 x 10.22 in.)

LA1000



Frequency Range	DC – 3 GHz
Power (max.)	1000 W continuous to 25°C
Attenuation	40 dB ± 0.75 dB (DC - 1.5 GHz) 40 dB $\pm 1.5/0.5$ dB (1.5 - 3 GHz)
Input VSWR (max.)	1.15:1 (DC – 1.5 GHz) 1.25:1 (1.5 – 3 GHz)
Output VSWR (max.)	1.15:1 (DC – 1.5 GHz) 1.25:1 (1.5 – 3 GHz)
Connectors	
Input	N(F)
Output	N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	13.15 kg/29 lb.
Size (approx.) W x H x D	178 x 332 x 451 mm 7.00 x 13.1 x 17.76 in

Accessories

Field Monitoring

FL8200/Kit 5 kHz – 200 MHz



Frequency Range	5 kHz – 200 MHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Range)	0.3 – 500 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 64 dB
Analog Rise Time (10 – 90% Typical)	300 us
Isotropic Deviation(Measured at Ortho Angle)	±0.5 dB @ 10 MHz
Resolution	< 0.1 dB
CW Damage Level	1000 V/m
Pulse Damage Level	5 kV/m (> 0.1% Duty)
Linearity Error	±0.5 dB or ±0.3 V/m (Whichever is greater)
Temperature Stability (Over Operating Temperature Range)	±0.1 dB (Detection Circuit) ±0.5 dB (Complete System)
Weight	150 g (5.3 oz)
Dimensions (W x H x D)	42.3 x 52.4 x 52.4 mm (1.66 x 26 x 26 in) 29.2 mm (1.15 in) Spherical housing diameter 16.5 mm (0.65 in) Sensor radome height per axis

FL8009/Kit 20 MHz - 9.3 GHz



Frequency Range	20 MHz – 9.3 GHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Range)	0.5 – 800 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 64 dB
Analog Rise Time (10 – 90% Typical)	300 ns
Isotropic Deviation(Measured at Ortho Angle)	±0.5 dB @ 100 MHz
Resolution	< 0.1 dB
CW Damage Level	1000 V/m
Pulse Damage Level	5 kV/m (> 0.1% Duty)
Linearity Error	±0.5 dB or ±0.3 V/m (Whichever is greater) (±2 dB 20 MHz – 80 MHz)
Temperature Stability (Over Operating Temperature Range)	±0.1 dB (Detection Circuit) ±0.5 dB (Complete System)
Weight	150 g (5.3 oz)
Dimensions (W x H x D)	42.3 x 52.4 x 52.4 mm (1.66 x 26 x 26 in) 29.2 mm (1.15 in) Spherical housing diameter 16.5 mm (0.65 in) Sensor radome height per axis

FL8018/Kit 20 MHz – 18 GHz



Frequency Range	20 MHz – 18 GHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Range)	2 – 1000 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 54 dB
Analog Rise Time (10 – 90% Typical)	600 – 2400 ns (amplitude dependent)
Isotropic Deviation(Measured at Ortho Angle)	±0.5 dB @ 100 MHz
Resolution	< 0.1 dB
CW Damage Level	1200 V/m
Pulse Damage Level	6 kV/m (> 0.1% Duty)
Linearity Error	±0.5 dB or ±0.5 V/m (whichever is greater)
Temperature Stability (Over Operating Temperature Range)	±0.5 dB
Weight	227 g (8 oz)
Dimensions (W x H x D)	278 x 65 x 65 mm (10.9 x 2.6 x 2.6 in) 65 mm (2.6 in) Sensor head diameter

FL8040/Kit 20 MHz – 40 GHz



Frequency Range	20 MHz – 40 GHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Range)	2 – 1000 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 54 dB
Analog Rise Time (10 – 90% Typical)	600 – 2400 ns (amplitude dependent)
Isotropic Deviation(Measured at Ortho Angle)	±0.5 dB @ 100 MHz
Resolution	< 0.1 dB
CW Damage Level	1200 V/m
Pulse Damage Level	6 kV/m (> 0.1% Duty)
Linearity Error	±0.5 dB or ±0.5 V/m (whichever is greater)
Temperature Stability (Over Operating Temperature Range)	±0.5 dB
Weight	227 g (8 oz)
Dimensions (W x H x D)	278 x 65 x 65 mm (10.9 x 2.6 x 2.6 in) 65 mm (2.6 in) Sensor head diameter



Accessories

Field Monitoring

FL8060/Kit 20 MHz – 60 GHz



Frequency Range	20 MHz – 60 GHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Range)	2 – 1000 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 54 dB
Analog Rise Time (10 – 90% Typical)	600 – 2400 ns (amplitude dependent)
Isotropic Deviation (Measured at Ortho Angle)	±0.5 dB @ 100 MHz
Resolution	< 0.1 dB
CW Damage Level	1200 V/m
Pulse Damage Level	6 kV/m (> 0.1% Duty)
Linearity Error	±0.5 dB or ±0.5 V/m (whichever is greater)
Temperature Stability (Over Operating Temperature Range)	±0.5 dB
Weight	227 g (8 oz)
Dimensions (W x H x D)	278 x 65 x 65 mm (10.9 x 2.6 x 2.6 in) 65 mm (2.6 in) Sensor head diameter

FM7004A



Inputs:	Up to 4 independent probes, through 4 fiber optic FSMA pairs.
Output:	Graphical, color LCD touch display IEEE-488 (GPIB) USB 2 (test and measurement class) RS-232 Ethernet
Compatible Field Probes	All 7000 and 8000 Series field probes.
Power Requirements:	
Input voltage	Universal input 90 – 260 VAC, 50–60 Hz
Input current	0.2 – 0.6 Amps
Input type	IEC C14 Inlet with filter
Fuse	1A, 5x20 mm slow blow
Operating Temperature Range:	10°–40°C (50°–104° F) @ 5 – 95% RH noncondensing
Enclosure	Desktop case, 2U high
Correction Factor Tables	Stores up to 6 different tables (each table corresponding to one probe); 2 to 30 frequency points per table
Weight	without enclosure 2.3 kg (5 lb) with enclosure 6.7 kg (14.75 lb)
Size (W x H x D)	without enclosure 48.3 x 9 x 25.4 cm (9 x 3.5 x 10 in) with enclosure 49.8 x 12.7 x 30.5 cm (19.6 x 5 x 12 in)
Export Classification:	EAR99

FI8000



PC Interfaces	IEEE-488 (GPIB) Ethernet, USB 2.0 Test and Measurement Class RS-232 (19200 Baud), Fiber-Optic Serial (19200 Baud)
F/O Connector Type	E-2000 Compact Duplex
Application Software	VM7000, emcware
Laser	
Wavelength	808 nm
Maximum Output Power	2000 mW
Class	1
Shutdown Time	<1 ms After fiber disconnect <250 ms After loss of communication
Power Requirements	
Input Voltage	90 – 260 VAC, 50 – 60 Hz
Input Current	0.2 – 0.6 A
Connector Type	IEC C14 Inlet with filter
Ambient Temperature	10° - 40° C
Enclosure	2U Desktop Case with 1U Blank panel installed
Weight	2.3 kg (5 lb) without enclosure 6.8 kg (15 lb) with enclosure
Dimensions (W x H x D)	48.3 x 4.4 x 26.9 cm (19 x 1.72 x 10.60 in) without enclosure 50.4 x 11.6 x 30.5 cm (19.84 x 4.58 x 12.0 in) with enclosure



Accessories

Power Heads / Power Meters

PH2000A 10 kHz – 8 GHz



Frequency Range	10 kHz – 8 GHz
Dynamic Range	-60 to +20 dBm
Overload Rating (CW Power)	300 mW
Overload Rating (Peak Power)	1 W for 1 μ s
SWR (max.)	10 kHz - 2 GHz, 1.12:1 2 GHz - 4 GHz, 1.20:1 4 GHz - 8 GHz, 1.40:1
Noise (RMS)	80 pW
RF Input	N(M), 50 ohm

PH2005 500 kHz – 18 GHz



Frequency Range	500 kHz – 18 GHz
Dynamic Range	-70 to +20 dBm
Overload Rating (CW Power)	300 mW
Overload Rating (Peak Power)	1 W for 1 μ s
SWR (max.)	500 kHz - 2 GHz, 1.15:1 2 GHz - 6 GHz, 1.20:1 6 GHz - 18 GHz, 1.40:1
Noise (RMS)	30 pW
RF Input	N(M), 50 ohm

PH2010 30 MHz - 40 GHz



Frequency Range	30 MHz – 40 GHz
Dynamic Range	-70 to +20 dBm
Overload Rating (CW Power)	300 mW
Overload Rating (Peak Power)	1 W for 1 μ s
SWR (max.)	30 MHz - 4 GHz, 1.25:1 4 GHz - 38 GHz, 1.65:1 38 GHz - 40 GHz, 2.00:1
Noise (RMS)	30 pW
RF Input	K(M), 50 ohm

PM2003 10 kHz - 40 GHz



Frequency Range:	10 kHz – 40 GHz, power head dependent
Power Range:	-70 dBm to +44 dBm, powerhead dependent
Number of Channels	Three (2 simultaneously viewable)
Measurement Speed:	1 channel: 200 Readings/Sec. 2 channels: 100 Readings/Sec.
Dynamic Range:	Up to 90 dB with diode heads, 50 dB with thermocouple heads.
Display Units:	Absolute, watts and dBm. Relative, dBr
Display Resolution:	5 digits, nW, μ W, mW and W; 4 digits dBm
Instrumentation Accuracy:	0.23% of full scale. 0.46% of 1/10 full scale
Inputs:	Rear panel HEAD connectors and rear panel IEEE-488 connector standard.
Outputs	Rear panel PWR/REF connector, 0 dBm, 50 MHz. Rear panel RECORDER BNC connector, 0 to 10 V into 1 M Ω .



PSP102

4 kHz – 6 GHz

Frequency Range:	4 kHz - 6 GHz
Average Dynamic Range:	-60 to +20 dBm
Pulse Dynamic Range:	-45 to +20 dBm
Internal Trigger Range:	-40 to +20 dBm
Risetime (fast/standard)	2 μ s / 1 ms
Maximum Input Power	200 mW or, 1 W for 1 μ s
VSWR (max.)	0.01 - 2.0 GHz, 1.15:1 2.0 - 6.0 GHz, 1.20:1
RF Input	N(M), 50 ohm



Sampling Techniques:	Real-time/Equivalent time
Continuous sample rate:	25 MHz
Effective sample rate:	1 GHz
Time resolution:	1 ns
Trigger source:	internal or external TTL
External Trigger in/out:	TTL in (slave) or out (master)
Minimum Trigger Width:	4 μ s
Maximum Trigger Frequency:	120 kHz
Trace Acquisition Speed:	> 30 k sweeps/second
Measurement Speed:	100 k meas/sec (buffered mode) Over USB 1000 meas/sec (continuous)
Remote Connectivity:	USB 2, type B connector
Size (LxWxH):	145 x 43 x 43 mm (5.6 x 1.7 x 1.7 in.)
Power Consumption:	2 W, (USB high power device)

TP1000B



Load Capacity:	27.2 kg (60 lbs)
Maximum Height (Approx.):	137 cm (53.9 in)
Maximum Height With Longer Mast (approximate):	203 cm (80 in)
Minimum Height (Approx.):	89 cm (34.9 in)
Mast Travel:	(24" MAST) 48.3 cm (19 in) (51" MAST) 45.7 cm (18 in) (19" MAST, TP1000BM4) 37.3 cm (14.7 in)
Tilt Angle:	0–90°
Pan Rotation:	360°
Instrument Mounting Screw:	1/4 in. x 20
Material:	PVC, ABS, nylon
Weight:	9.7 kg (20.5 lbs)
Export Classification:	EAR99

TP3000



Load Capacity:	10 kg (22 lb.)
Maximum Height (Approx.):	175 cm (69 in.)
Minimum Height (Approx.):	53 cm (21 in.)
Column Travel:	45 cm (18 in.)
Pan Rotation:	360°
Instrument Mounting Screw:	1/4 in. x 20
Material:	Wood
Weight:	2.6 kg (5.7 lb.)
Export Classification:	EAR99

AP5010B



Load Capacity:	45.36 kg (100 lbs)
Maximum Height (Approx.):	3.31 m (130.25 in)
Minimum Height (Approx.):	2.07 m (81.69 in)
Base Leg:	1.53 m (60.42 in); extends to 2.04 m (80.19 in)
Tilt Angle:	0–30°
Material:	Fiberglass, PVC, Delrin, Nylatron
Weight:	45 kg (98 lbs)
Export Classification:	EAR99

Visit us online to view additional model options and our antenna mounting adapters.

emcware®

Features

The emcware® Suite by AR RF/Microwave Instrumentation provides automated Electromagnetic Compatibility (EMC) testing and report generation for all types of users from corporate to professional test laboratories. It is a standalone software application designed to operate on a PC running a Microsoft Windows™ operating system. The export classification for this software is EAR99. This software is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Software Design

The emcware® Suite is designed to be user friendly yet extremely flexible. It is broken up into modules based on different types of EMC testing. Within each module there are predefined standards. The ability to create custom test standards is also provided.

Equipment Management

Contained within the emcware® is a built-in Equipment List Manager. This tool allows for equipment to be entered one time and then accessed from within any of the modules. The Equipment List Manager also keeps track of calibration dates and can warn the user when the calibration date of a specific piece of equipment is approaching.

EUT Monitoring

Use custom equipment or a National Instruments DAQ card to monitor and report the status of the equipment under test (EUT). The National Instruments DAQ device can monitor Analog or Digital levels from the EUT or reset the EUT using the Digital Outputs. Custom equipment, in conjunction with dynamic link library (DLL) files, allows for complete EUT monitoring and control.

Instrument Drivers

Instrument control is provided through AR RF/ Microwave Instrumentation's extensive driver library. Creation of new drivers for equipment that is not currently supported is available upon request. Drivers can also be created and imported by the user in the form of dynamic link libraries (dll) files.

Signal Routing

The emcware® is designed to allow the user to select between manual and automatic signal routing. Automatic signal routing is implemented using one or more AR RF/Microwave Instrumentation Model SC2000 System Controllers.

Reports

Extensive report generation capability is built into each module. These reports can be customized by the user. All reports are created in Microsoft Word or Microsoft Excel.

Help Instructions

A detailed help utility is included with the emcware®. The contents of the help instructions can be searched by keyword or topic. Open the help file using the context-sensitive help buttons located throughout the user interface.

Licensing

The emcware® is conveniently licensed using a USB hardware dongle that enables full functionality of the software for a single PC.

AR Systems Compatibility

The emcware® can automatically control select AR Systems using built-in equipment setups. See the Compatible Systems for a complete list.

INCLUDED TEST STANDARDS, emcware®	
Organization	Standard
CISPR	CISPR 11
	CISPR 13
	CISPR 22
	CISPR 25
	CISPR 32
Department of Defense	MIL-STD-461 RS103
	MIL-STD-461 RS103 (Reverb)
	MIL-STD-461 CS114
	MIL-STD-461 RE(101, 102)
	MIL-STD-461 CE (101, 102)
RTCA	DO-160 Section 20
	DO-160 Section 20.6 (Reverb)
	DO-160 Section 21
IEC	61000-4-3
	61000-4-6
	61000-4-21
	50130-4
	60601-1-2
	61000-6-1
	61326
Telcordia Technologies	61000-6-2
	GR-1089-Core
International Organization for Standards	ISO-11452-(2, 3, 5)
	ISO-11452-4
Ford	ES-XW7T-1A278-AC
GM	GMW3097
BMW	GS 95002
Chrysler	DC-11224
Renault	36-00-808
Peugeot	B21 7110

emcware®

Software Mode Radiated Susceptibility Test Option IEC-61000-4-3 AR System None

Active Test Setup MT DEMO - IEC 61000-4-3 (Level 3) - 612021.rsts



Equipment



Calibration



Test



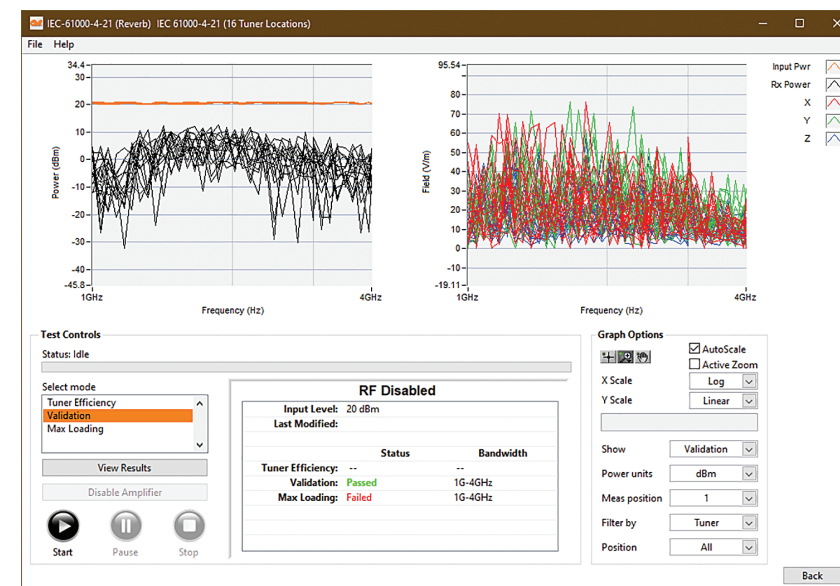
Test Setup



Multitone Calibration



Reports



SC Switch Control Platform SC2000, SCX2000 and SCP2000



Rated Voltage	100 – 240 V AC
Rated Frequency	50 – 60 Hz
Rated Power	100 VA max.
Dimensions W x H x D	48.26 x 13.34 x 44.77 cm (19 x 5.25 x 17.625 in)
Weight	
SC2000 (without modules)	approx. 4.1 kg (9 lbs)
SCX2000 (without modules)	approx. 3.9 kg (8.5 lbs)
SCP2000 (with modules)	approx. 6.8 kg (15 lbs)
Module Slots	
Number of module slots	5 on rear of unit
Number of control buses for modules	5
RF Switch Power Handling	See Spec Sheet
Block Diagram	See Spec Sheet

Shielded Enclosure Leak Detector System CL-105A and CL-106A



The CL-105A/CL-106A Shielded Enclosure Leak Detection System (SELDs) provides a convenient means of testing the electromagnetic shielding effectiveness of EMI enclosures by looking at the most likely points of degradation – the seams, doors, and filter connections. The system consists of a Model CL-105A Transmitter, Model CL-106A Receiver, headphones and a rugged carrying case. The incredible sensitivity of the model CL-105A Receiver allows it to meet the most rigid MIL standards (e.g. MIL-STD-188/125) for shielded room acceptance.

This system is designed to make relative shielding effectiveness measurements by passing a current along the surface of an EMI enclosure in order to sense the small magnetic fields formed where breaks in the EMI enclosure may occur.

The Model CL-105A Transmitter is used to generate an output signal which is connected to the EMI enclosure under test. This device has an auto-adjusting output that works with small, medium, and large EMI enclosures. An LED indicator illuminates green when the Transmitter has adjusted the output to the optimum level for the connected EMI enclosure.

The Model CL-106A Receiver has high sensitivity to detect the smallest of magnetic fields produced at breaks in the EMI enclosure under test. This unit auto-zeros and features an auditory output with varying amplitude related to the shielding effectiveness. The auditory output is available through the built-in speaker or included headphones. A 4-digit seven segment display is provided to indicate relative shielding effectiveness measurement values in dB. In addition, a built-in LED light source provides illumination when used in dark environments.

System Interlock SI1000



Wired Interlock, Remote Out, and Relay Connections

Molex receptacle, 3-pin, 0.093 in. DIA terminals
Mating 3-pin plug connector and terminals supplied

Fiber Optic Connectors (2) FSMA for fiber connection
Compatible with FC2000 Series Cables

Power Requirements
Input Voltage 90–260 VAC, 50–60 Hz
Input Current 0.2–0.6 A
Input type IEC inlet with filter

Enclosure Rack mount case, 1U high

Dimensions (WxHxD)
48.3 x 4.5 x 17.8 cm (19 x 1.75 x 7 in.)

Weight 2.5 kg (6.25 lb.)

Operating Temperature Range
10°C to 40°C (50°F to 104°F) @ 5% to 95% RH non-condensing

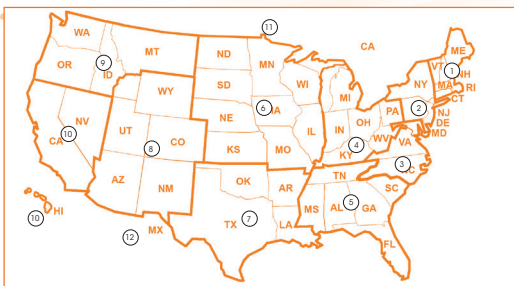
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For Sales, call: 215.723.8181

For an Applications Engineer, call: 800.933.8181

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Contact Service

We believe local after sales support and service are essential, and we strive to provide the best service possible.

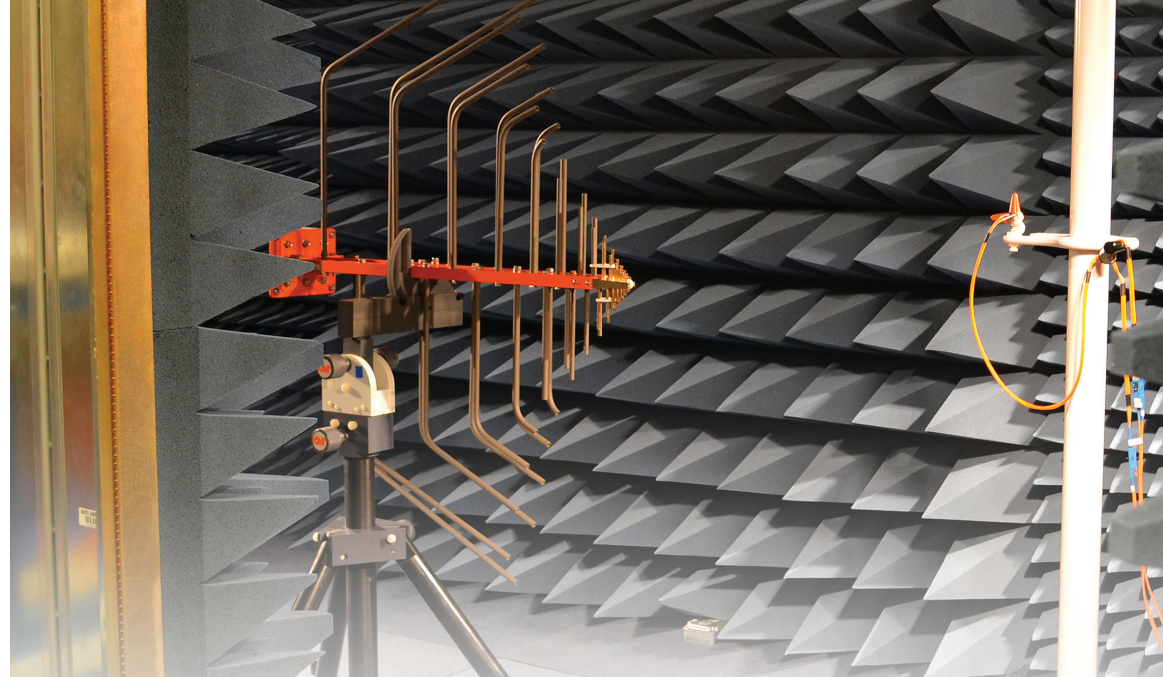
Our highly trained technicians maintain equipment so that even older or rebuilt AR products continue to perform the same as they did on Day 1. There are rebuilt AR amplifiers over 20 years old that are still going strong and delivering precision results.

You can depend on AR's service from calibration and regular maintenance to troubleshooting and repairs.

Three-Year, No Questions Asked Warranty

We set a new standard when introducing our three-year warranty (one-year warranty for TWTs and powerheads). It's easy to stand behind your products when their quality is unsurpassed. Making sure that AR products exceed your expectations is our goal. We do whatever it takes to achieve that.

In the US, contact AR's Customer Service Department at 215.723.0275 or service@arworld.us. Outside of the US, contact the AR distributor nearest you.



	Basic Warranty	Assured	Enhanced	Performance
Technical Support (HW and SW)				
Email / Phone Case Response Time	24 hrs.	8 hrs	4 hrs	2 hrs
24 x 5 Technical Support				✓
On-Site Post-Sales Support				✓
Hardware Support				
Repair Service Coverage Turnaround Time	15 business days	14 business days	10 business days	7 business days
Calibration Service Turnaround Time	15 business days	10 business days	5 business days	3 business days
Firmware Release and Updates	✓	✓	✓	✓
Spare Parts/Consignment Inventory			optional	✓
Product Maintenance	optional	optional	optional	optional
Software Support				
Updates and Maintenance Releases	✓	✓	✓	✓
Proactive Release Notification	✓	✓	✓	✓
Success Services				
Customer Success Manager–Advocate, Escalation Point			✓	✓
Onboarding and Support Performance Metrics Report		✓ Annual	✓ Bi-Annual	✓ Quarterly

1. Response time based on AR standard business hours and hardware support turnaround time excludes component lead time.

2. AR Software Agreement required for software support.

3. All the offered services are subject to availability of capabilities in country and legal terms and conditions.

4. Contact your local AR sales representative for more information.



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AR's Competitive Edge

At AR, there's no substitute for customer responsiveness. It's the foundation of our business and the AR value that's recognized around the globe. It's one of the key reasons AR has become the worldwide leader in EMC, wireless and beyond.

AR products do more, last longer, work harder, and make your job easier. And that gives you a fierce competitive edge. Only AR delivers innovative technology, advanced design, quality build and workmanship, mismatch capability, durability and longevity, less cost per watt, and a worldwide support network that's here for you today and tomorrow. With the combined resources of all the AR companies, we simply have more of the best people making the products to overcome your toughest challenges.

Amplifier Research Corp.

- RF & Microwave Solid State Amplifiers ranging from: 1-50000 watts, 10 Hz - 50 GHz
- Antennas to 15000 watts input power, 10 kHz - 50 GHz
- EMC and Wireless Test Systems
- Multi-tone test systems
- Field measuring equipment
- EMC test software
- EMC & RF test accessories
- Positioning equipment

Want to know more about AR? Need help with any RF solutions or testing procedures?

Reach out to us directly via email or check out our website's contact page to get in touch with the right person for your product or service needs.

www.arworld.us/contact-us/

Email: ari-info@ametek.com

Connect with us!



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linkedin.com/company/ar-rf-microwave-instrumentation

Amplifier Research Corp. Location

160 Schoolhouse Road
Souderton, PA 18964, USA
Tel 215-723-8181
www.arworld.us

Amplifier Research Corp. is ISO Certified.



AR Global Promise

The AR warranty is more than just a warranty, it's a promise, backed by a knowledgeable support team that's always there for you to help solve any problems and answer any questions, today and tomorrow. AR warrants its amplifiers, antennas, test systems, power meters, field monitoring equipment, conducted immunity generators, couplers and tripods to be free of defects in materials and workmanship for a period of three years from date of shipment. Vacuum, traveling wave tubes and powerheads carry a one year warranty.

